

NEW BRITAIN

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PATENTS.

James Shepard.



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Book N6 S6

NEW BRITAIN PATENTS AND PATENTEES,

With a List of New Britain Patents Prior to 1901,

Arranged Alphabetically as to Patentees.

By JAMES SHEPARD,

Author of "Governor William Bradford and his Son Major William
Bradford," "Connecticut Men in the Pequot War," "The
United States Patent System," Etc.

APPENDIX.

"The Origin of New Britain Manufacturers."

By the Hon. F. T. STANLEY.

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“Invention is activity of mind, as fire
is air in motion.

A sharpening of the spiritual sight, to
discern hidden aptitudes.”

“For we learn upon a hint, we find
upon a clue. We yield a hundred fold;
but the great sower is Analogy.”

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PREFACE.

Having devoted thirty-five years of my life to the study of patents, and, knowing that their true value to the public is generally unappreciated and sometimes wholly ignored, I have been led to make a special study of the history and value of New Britain patents and learned, with pleasure, that New Britain stands at

The Head of the Inventive World.

This book is the result of such study and is given to the public for the purpose of placing the result of my labors in a permanent form, and to give in a convenient form the names of the many inventors whose patents have not only honored our city, but have also materially added to its wealth and prosperity. It seems also appropriate in this connection to reprint the article on "The Origin of New Britain Manufacturers," by the first Mayor of our city, the Hon. Frederick T. Stanley, who in his lifetime did so much for the public, both as a manufacturer and as a citizen.

On the front cover I reproduce the drawing of a patent for a paper box to H. H. Corbin, dated Aug. 17, 1869. This particular patent was selected for this purpose, partly because it bears the autograph of F. T. Stanley as one of the witnesses, partly because it is a comparatively early patent, and because it is a good example of how an extremely simple device may develop into a valuable patent. The value of this patent, as shown by the actual sales and profits, was thousands of dollars.

I acknowledge my indebtedness to preceding historians for many facts herein given. For further facts as to our industrial history, see Prof. David N. Camp's "History of New Britain," Deacon Alfred Andrews' "Genealogy and Ecclesiastical History" of the First Church and Society of New Britain, Deacon Charles Peck's "New Britain Fifty Years Ago," a typewritten copy of which is in the Institute Library, and "New Britain" by George C. Atwell, in Vol. 6, No. 3, Connecticut Magazine, March and April, 1900.

JAMES SHEPARD,

New Britain, Conn.

April 15, 1901.

ARRANGEMENT.

- I. History and General Review.
- II. Number of New Britain Patents by Years.
- III. Number of New Britain Patents by Decades.
- IV. Alphabetical List of Patentees.
- V. The Origin of New Britain Manufacturers.

NEW BRITAIN PATENTS AND PATENTEES PRIOR TO 1900.

HISTORY AND GENERAL REVIEW.

The first resident of New Britain to avail himself of industrial legislation in any manufacture, was probably Elijah Hinsdale, the maternal grandfather of Elihu Burritt, the learned blacksmith. In May, 1784, the State of Connecticut voted a bounty of two pence lawful money, for each ounce of silk, well dried, "to whoever shall make any raw silk from worms and mulberry trees of his own raising within the state," for ten years after July 1 of that year. On Feb. 12, 1777, Mr. Hinsdale bought the house at the corner of East and Smalley streets, and other lands, including an eight-acre lot lying west of the cemetery. He was a blacksmith, but he had on this lot, says Andrews, "a mulberry orchard and a Silk house, where the worms were fed and where the silk was reeled and manufactured to such an extent that he obtained a yearly bounty from the state for many years. This Silk house was occupied by Mr. Burritt and his family until its destruction by fire." Mr. Hinsdale died June 26, 1797, age 54. It was seven years after he purchased his land here that the silk bounty law went into effect, so that he was just in time to reap the full benefit of that act. Aside from the ordinary blacksmiths, saw mills, grist mills, cider mills, clothiers, tanners, coopers and shoemakers, common to every agricultural community, Mr. Hinsdale was probably the first manufacturer in New Britain, as well as the first to receive industrial protection. The

blacksmiths, above all others, were practically the skilled mechanics of those days and must have been true inventors if we judge by the great variety of articles that they made, including such tools and utensils as were needed in the farm and mill work of the place, and sometimes hand-bells, cow-bells, harness and shoe buckles. A few other artisans furnished their peculiar products, which were well known, and when the people wanted anything that no one else could supply they went to the blacksmith. There were several shops in Berlin where tinware was made for sale by peddlers, and before 1800 it was manufactured on East street by Seth Lewis, and by Thomas Lee about 1800 on the present site of Hicks' block on West Main street.

The various artisans in New Britain prior to 1800, except Mr. Hinsdale and the tanners, were not manufacturers in the sense of making goods to put on the market generally, for they only manufactured to order for this vicinity.

Previous to 1800 James North, senior, had made a few brass buckles, andirons, etc., in his blacksmith shop and sold them to his neighbors. It was largely, owing to his foresight and enterprise, that New Britain became a hardware city. He not only sent his son James away to learn the hardware business, but also induced the parents of Joseph Booth and Joseph Shipman to send their sons and thus "let the three boys go together" to Stockbridge, Mass., to learn of Joseph Barton the trade of brass founder, clock maker and silver spoon maker. The result was that two of these boys, James North, Jr., and Joseph Shipman, commenced the manufacture of sleigh bells in the spring of 1800, near the residence of the late Frederick N. Stanley, which business was continued by them and their successors without competition until 1840, and was the leading business of the place until 1830. Aside from tinware this was the first hardware ever made in New Britain designed for an outside market.

They transported their goods in saddle bags, the markets being divided between Boston, Albany, New York and Philadelphia. They borrowed money for this enterprise of the Rev. Dr. Smalley. Joseph Shipman's capital stock consisted of fifty dollars. At the price and profits of those days he was not only able to refund his borrowed money, but he thus rose to comparative wealth and influence.

Manufacturers were so few that it was not at all necessary to guard against competition by patents. In fact the U. S. patent act was then a mere infant, only ten years old, and only one hundred and seventy-nine patents had been granted in the whole country. Prior to 1790 the only protection was by some special act of the Colony or State, as for example the bounty on silk before referred to or the grant of some individual right. One reason that manufacturers were so slow to avail themselves of the benefit of the patent act was because there were so few manufacturers. The design of the act was to encourage manufacturing and we may truly say that the said design has been accomplished. The more manufacturers we have, the greater the necessity of patents as a protection against competition, and thus manufacturers and patents multiply together.

Prior to 1850 most of the New Britain inventors who secured patents gave their residence as Berlin and thus it is possible that some New Britain patentees may have been overlooked. The first person to receive a United States patent that I can identify as a resident of New Britain was Joseph Sage, April 14, 1810, for an improvement in Clothespressing machines. The Berlin land records show that he was the son of Solomon Sage of Wethersfield and resided from time to time in New Britain and in Granby, Conn. Nothing more is known of him or his patent.

On Dec. 31, 1812, Ozias Hart patented a rake for collecting apples. Nothing is known as to what, if anything,

was done under the said patent. Andrews says that he was a farmer and also ran a saw mill. "He had an active, but somewhat erratic mind, a man of stern virtue and integrity," He died Feb. 6, 1845, age 77.

Linus Burwell patented a Door Spring, Nov. 25, 1829. He was one of the trustees of the Methodist church here in 1833 and lived in Buffalo, N. Y., in 1847, but I cannot say whether or not any of his door springs were ever used.

Samuel Booth took a patent for Brazing and Bronzing Bells for Cows, &c., on June 1, 1832, and he has the honor of being the first person ever known to have manufactured goods in New Britain under a U. S. patent. He was a blacksmith and lived in an old red house where the South Church now stands, his shop being in the rear of the house. Besides the usual blacksmith products, he made cow-bells, plows, bureau locks, sad irons and bellows pipes. He appears to have met the common lot of many inventors, for, Andrews says, "He had various losses and successes in business, experienced much joy and sorrow in life, and died in hope of a glorious resurrection, May 11, 1846, age 56."

Henry L. Bidwell patented a Cooking Stove, or digestive furnace, March 8, 1833. He lived in Stanley Quarter on the John Stanley place, which contained a water power. Dea. Alfred Andrews says he manufactured cooking stoves there. He removed to Hartford, then to New York City. He recruited in New Britain and became Capt. of Co. A, 13th Regt., Conn. Volunteers, and died in the service at New Orleans, June 15, 1863, age 58. Andrews has the honor of being the only historian known to me to mention this manufacture, and his statement seems to fit very well with the fact that Bidwell had a patent on stoves.

Alvin North patented a Saddle-bag Fastening, Dec. 29, 1837. We have no specific information concerning its manufacture, but it is well known that he was one of the

earliest of our manufacturers, of whom the present North & Judd Mfg. Co. is the successor. As early as 1812, Alvin & Seth J. North and Hezekiah C. Whipple, a jeweler from Providence, R. I., began what was called the "Plating Business." They made wire by plating copper bars with silver and then drawing it into wire which, like the bars, had a coating of silver and a core or body of copper, the only effect of drawing being to reduce the size and increase the length. This was a valuable invention, but was dedicated to the public by failure to secure a patent therefor. From this wire they made rings for men's overcoats, hooks and eyes for women's wear, and curb-chains for bridles. The business passed into the hands of Alvin & S. J. North, and was greatly increased in variety and amount.

Orin S. North patented a Mail-bag Label, March 18, 1844. He was a son of Alvin North, who probably made the patented goods.

On Sept. 4, 1847, Morton Judd patented a Sash Fastener. A few years before this, John Stanley built a house north of the present railway, where the Railroad block now stands. It was the first house in town in which the window sashes were provided with weights. He bought sash fasteners of English make in New York. Mr. Stanley showed these fasteners to Mr. Oliver S. Judd and suggested that they might make a good article to manufacture. Mr. Judd made some improvement thereon and applied for a patent in 1846, but it was rejected. His brother, Morton, got up another fastener which resulted in the patent of 1847. The Judds manufactured these fasteners and also window sash pulleys under the patent to Oliver S. Judd, June 13, 1848, at the present O. S. Judd factory on West Main street, and they were the first to ever make fasteners for the meeting rails of sashes in this country. At first they did not mark the fasteners as patented. The result was that a firm in

Chicago soon commenced to make them, but stopped immediately upon being notified of the patent. Some one also took the Judd fastener and reproduced them in England for importing to this country, but, after notice of the patent, the sale of these imported fasteners was stopped. With these two exceptions no one ever attempted to make Judd's fastener until after the patent expired, but others in this town put his fasteners into the sand for making an exact copy thereof, the very day the patent expired. This was a literal fulfillment of the law which grants patents for a limited time in consideration of having the invention fully and clearly disclosed so that others may reap the benefit of the same as soon as the patents expires. Before this patent expired the Judds sold their fastener for \$1.25 per dozen. Similar fasteners are now sold for only 20 cents per dozen. It was in the manufacture of these patented goods that the Judds made their first and great success as manufacturers.

John Low patented a Harness Hame April 9, 1850, and May 28 of the same year Alvin and Oliver B. North and Stephen Frink patented machinery for making four-sided buckles. These patents would naturally go into the business of the North Brothers. Mr. Low was one of the first Irishmen to reside in New Britain, as well as the first foreign born resident of New Britain to receive a patent. He is still living in the north part of the city.

Lucien E. Hicks patented a machine for Making Eye-lets Dec. 17, 1850. He came from Providence and was probably an employee of the North & Stanley Co., who made hooks and eyes at the Corbin shop on Park street. The first machine used in the manufacture of hooks and eyes was constructed about 1830 by Levi Lincoln of Hartford upon the order of Henry North. It was considered successful, but was improved upon from time to time by various mechanics besides Mr. Hicks, whose patent was the second one ever issued on machines for making hooks and eyes.

Elijah A. Andrews patented a Trunk Handle March 18, 1851, the history of which I do not know, but Mr. Andrews worked for O. B. North.

On Dec. 16, 1851, John Paige Pepper patented a Mineral Composition resembling jasper. He was the founder of the Mineral Knob Co., who made door knobs on the triangular piece of land east of High street and between the railroad and Lake street, where the Stanley Works' old tack shop was burned. The business was successful, many knobs being made and sold under the said patent. It is reported that in addition to this patent he held some secret as to the manufacture that he guarded with great care. Mr. C. B. Erwin, who was interested in the company; feared that he would run away and carry the secret with him and therefore watched him very closely for a long time. Finally Mr. Pepper left, but Mr. Erwin was on hand and, following him to the depot, detained him there until he divulged the secret.

I have no history of the patent granted April 20, 1852, to Amon L. Finch for Incasing Car Wheels and Axles, but he was a Hame Maker and had a shop on Pearl street.

James D. Smith patented a Sash Stopper and Fastener Oct. 19, 1852. I understand he was employed by the Russell & Erwin Co.

On Jan. 15, 1856, H. M. Clark patented a Bolt Heading Machine. He built the machine in the shop on Elm street now occupied by the New Britain Hardware Co. It was probably a success, as he sold out to a party in Southington.

The same year Henry Isham patented his famous Bank Lock on July 1. It proved to be one of the best bank locks ever produced and some of them, I believe, are in use to this day. His locks were made by Mr. Frederic H. North under the name of the New Britain Bank Lock Co., and it was an exceedingly profitable business.

In 1857 only two New Britain patents were issued, one of which was to Mr. Isham for an improvement on his lock, and the other to H. M. Clark for a Wrench.

We were able to follow the early New Britain patents thus in detail because only twenty were issued prior to 1858. There were sixteen consecutive years between 1812 and 1829 in which no patent was issued to a New Britain party, and three such years between 1852 and 1856. This, however, is the last break and we have now reached a point where we can no longer stop to mention each patent, for fourteen New Britain patents were issued in 1858. Of these we may note that Cornelius B. Erwin received two patents and Henry E. Russell, Sr., one, all for Designs for a Door Lock Plate. These were the first design patents ever granted to New Britain men.

We find only four women in our list of New Britain patentees. Sarah Jane Wheeler patented a Curry Comb in 1861. Elizabeth Monier, jointly with Frederick Monier, took a patent for a Fruit Jar Cover Fastening in 1890; Alice M. Hobson took a patent for a Steam-cooker in 1891, and Frances E. Maisonville took a patent for a Meat-tenderer in 1897.

In all, 1447 patents were issued to residents of New Britain prior to 1900. The largest number issued in any one year was 67 patents in 1899. In 1878 we had only 19 patents, the smallest number for any one year since 1865. Taken by decades there has been a continual and steady growth in the number of our patents. During the last decade there was an increase of over 56 per cent. on all the patents that had been issued to us during the previous century of our patent law. In this century we took 927 patents. In the last ten years we took 520. This number, however, only includes patents to resident inventors and therefore does not fully represent the patents owned by our manufacturers nor

those issued to New Britain mechanics who reside out of town. Our manufacturers have owned or controlled many patents of which we have no record or of which the inventors resided elsewhere although employed here, as for example Horace K. Jones of Hartford, who has worked for the Russell & Erwin Mfg. Co. since 1878, and during that time has assigned to them not less than 47 patents. Russell & Erwin not only take the lead in the total number of patents assigned to them, but also in having the largest number of patents in any one year, viz.: the year 1870, when they had 59 patents granted to them as assignees, and in 1899 they had 29. The next largest number in any one year to any firm is 25 to the American Button Fastener Co. in 1885. The following list gives the eight highest of record as to the total number of patents issued to our manufacturers as assignees :

Russell & Erwin Mfg. Co.,	308
P. & F. Corbin,	192
Stanley Works,	70
Landers, Frary & Clark,	63
Stanley Rule & Level Co.,	57
American Button Fastener Co.,	54
Traut & Hine Mfg. Co.,	39
North & Judd Mfg. Co.,	28

Of the inventors Mr. Justus A. Traut heads the list as to the number of patents taken, he having had more than twice as many as the next highest on the list. The twelve highest numbers are as follows :

Justus A. Traut,	113
Thomas Corscaden,	51
George E. Adams,	48
Elihu Thomson,	42
Emery Parker,	39

Charles M. Burgess,	} each	36
Henry G. Voight,		
Eleazer Kempshall,		34
Frank W. Mix,	} each	33
Frank J. Herrick,		
William E. Sparks,		30
William H. Hart,		29
William Gorman,		28
Thomas H. Brady,	} each	24
Henry E. Russell, Jr.,		

It is easy to ask the question, what were all these patents worth, and have they ever amounted to anything, anyway? As to what they are worth, no one can answer definitely. But that they are very valuable and have materially added to the prosperity and wealth of New Britain is a fact that no one who knows their history can dispute. We cannot claim for New Britain any such great invention as the telephone nor other great wonder of the age. In fact many of the inventions that have revolutionized the age, like the electric light, electric cars, bicycles and automobiles, have not been single inventions nor the work of any one person, but they have been built up piece-meal by many different inventors. There were many patents on electric roads and cars before the present trolley car was invented. The patent for the trolley pole alone was valued at the rate of one hundred dollars per car for all the cars in the country. While the first electric light was not invented in New Britain, we may say that the General Electric Company was born in New Britain. Professors Elihu Thomson and Edwin J. Houston of Philadelphia, who were making a special study of electricity, were invited to this city by Mr. Frederick H. Churchill, who was also making a special study of the subject. On the evening of April 24, 1880, a literary club met

at the residence of Mr. Churchill and Mr. E. H. Davison read a paper on "Electricity and Its Relation to the World's Business," following which there was a discussion of the subject by Prof. Thomson and others. After the club adjourned they met a party of New Britain men at the old Basket shop on Arch street (now Vile's carriage shop), and there gave the first practical demonstration of electric lighting ever given in this city. Messrs. C. B. Erwin, Henry Stanley, William H. Hart, and other New Britain men were present and the result was the formation of the American Electric Co. of New Britain the next day. After a few years the company was merged into the Thomson-Houston Electric Company of Lynn, Mass., and finally into the General Electric Company. Although Mr. Thomson resided in New Britain less than four years he has forty-two patents as a New Britain inventor, and stands No. 4 on our list as to the number of patents issued to one inventor.

We have produced many good paying inventions of much more value than is generally known. As a rule a patent is of no value unless the article is made and sold. The only exception to this rule is the value it may have in keeping someone else from making the patented thing. It is a better policy for a manufacturer to own a patent in his line that he does not make under, than to have some competitor own that patent and manufacture under it. That such patents are valuable is generally conceded, but it is very difficult to determine their value. I know of a firm who paid sixty thousand dollars for three patents on machines that they did not make and never expected to make, merely to prevent others from making them. In course of time a competitor started and was stopped by means of a suit based on one of these three patents. One of the directors said that it was worth more than the sixty thousand dollars paid for these three patents just to get this one competitor out of the market so that they could continue to control the business.

An employee in one of our shops conceived of an improvement on one of the articles made there and said to the superintendent of the company that he considered it worthy of a patent. He was gruffly told that he had better confine his attention to his regular duties and stop fooling with little inventions. A few years later a competitor in another town patented the same thing and to-day that competitor is building up his trade through the advantages secured to him by this patent. There may be many of our New Britain patents that appear to be worthless because the patented devices were never made when in fact they have been very valuable to the owners by keeping others from making the goods. It is often asserted that not more than one patent in ten is worth the cost of the patent, but the proportion of paying patents is immaterial so long as it is clear that the patents as a whole have greatly added to the wealth and prosperity of New Britain. We find, however, of the first twenty patents which we have reviewed in detail, granted prior to 1858, there is positive knowledge that goods were made and sold under eight of them and probably under five others, so that 13 out of the 20 may be probably classified as paying patents. Four of these patents were very valuable. The Isham patent alone must have been worth more than one hundred and fifty thousand dollars and thus worth more than enough to pay the entire cost of all the 1447 patents that were ever issued to New Britain inventors. Of the 113 patents issued to Justus A. Traut, I am informed that there is not a single patent in the lot but what has been worth more than it cost. This, however, is a very exceptional case and reflects much credit on Mr. Traut's good judgment and mechanical skill as well as on his inventive ability. One company in town reports that 100 per cent. of all their patents have been paying inventions, but they have never owned a large number of patents.

Sometimes one patent on an article leads up to other patents on the same article and thus we have what is called a line of patents. A small line of patents for a very simple article, owned by one of our manufacturers, appeared to be so simple and trivial that I have often heard it sneeringly spoken of, and yet, by figures based on the number sold and the actual profits in excess of the profits on the article as before made, this line of patents has been shown to be exceedingly valuable, and thus we find that very valuable patents are by some persons considered worthless. What could be more simple than the bed bottom, formerly made by the National Wire Mattress Company under the now expired patent of April 9, 1872, to Andrew Turnbull and Rodolphus L. Webb. The bed of this patent has been said to be nothing more than omitting the springs from the sides of a former patented bed. But it produced the best mattress ever made, and the patent in its life time was repeatedly sustained by the courts. It was probably the most valuable patent ever owned in New Britain. During the life of the patent the net price at wholesale was about nine dollars per bed, and after the expiration of the patent it was sold at a profit for about three dollars, apparently making six dollars that the makers received on account of the patent. There was, however, some difference in the cost of material in 1872 and 1889, for which difference we take one dollar per bed off from the profit due to the patent and call it worth five dollars per bed. A member of the firm who made them says that over three hundred thousand of these beds were sold. Counting the patent worth five dollars per bed, its value was one and a half million dollars. But this is only a part of the story, for it does not include the value of the invention to the public. As a rule we estimate the value of a patent by only what the owner can make out of it. Every patent, however, that is valuable to its owner is, sooner or later,

also valuable to the public. The bed made under the Turnbull and Webb patent gave the public a better bed for the retail price of thirteen dollars, than the beds then selling in the market for twenty dollars, so that while the owners of the patent made five dollars per bed the public was saving seven dollars per bed on all they bought. Thus the value to the public, during the life of the patent, was greater than the value to the owners. The value to the owner ceases when the patent expires, but the value to the public continues on indefinitely until something else better or cheaper is invented to take its place. In fact the design of the patent law was to benefit the public after the patent expires, instead of before, but in many cases, as in this bed patent, the public often receives during the life of the patent, in addition to the comfort and convenience, as much money value therefrom as does the owner or patentee. The importance of patents to New Britain is shown by the fact that of all our hardware manufacturers, the Humason & Beckley Co., the New Britain Hardware Co., and the National Spring Bed Co. are believed to be the only parties who are not manufacturing under patents. The business of the Bed Co. is, however, largely based on a patent, as their principal manufacture is the bed of the expired Turnbull & Webb patent.

In order to ascertain the opinions of our manufacturers, the following list of questions was prepared and sent to our ten largest Hardware manufacturers with the result stated :

1. What percentage of the goods made by you have been patented? One firm answers, a small per cent., two answer, 5 per cent., three answer, 10 per cent., four answer respectively, 20, 50, 66 and 100 per cent.

2. Have any of your patents been very valuable? One answers, "Fairly so," two answer, "Very few, indeed," and seven answer, "Yes."

3. Approximately what value do you place upon your best paying patent or line of patents? Six firms failed to state any specific value and four answered respectively, \$5,000, \$85,000, \$100,000 and \$200,000.

4. Have your patents as a whole been profitable? Every one of the ten firms answered, "Yes."

5. What percentage of all the patents owned or worked by you do you consider to have been paying patents? Two firms failed to state, two answered 25, one $33\frac{1}{3}$, two 50, one 75, one 85 and one 100 per cent.

6. Have your patents been generally respected? Three firms answered, "No," one answered, "Yes, after some trouble," and six answered, "Yes," without any qualification.

The average percentage of patented goods as made by these ten companies is about 28 per cent. Most of our smaller manufacturers make a larger percentage of patented goods. In fact, the times now tend to consolidation so largely that it is almost impossible for any small manufacturer to successfully carry on business without being protected by patents. Thus, as a rule, the smaller the capital invested, the greater will be the percentage of patented goods made. It is a safe estimate to say that the average percentage of patented goods made by our different hardware manufacturers is $33\frac{1}{3}$ per cent. All of our manufacturers, with the few exceptions noted, have had valuable patents, many of them very valuable, as we have already shown. All who have owned patents have found them profitable as a whole, and of the eight companies that answered as to the percentage of paying patents we find an average of over 55 per cent., so that we may safely say that more than half, instead of the proverbial "only one in ten," of the patents owned by our manufacturers have been paying patents. The percentage of paying patents taken out by inventors independently of our manufacturers will not run more than half

as high as the patents that are taken out for some manufacturer. An idle patent is valuable to keep off competition if one is making similar articles and thus may be a paying patent to a manufacturer when it would be absolutely worthless to the inventor who makes no use of it. Inventors often have an over estimate as to the value of their inventions and refuse fair offers in hopes of something better until they finally lose all chances to dispose of them or sell them for almost nothing. The value of a patent does not depend wholly on the merit of the invention. The way it is managed often times is of more importance than any other consideration. A valuable patent may be squandered by mismanagement as readily as a cash capital. The inventor, in order to be successful, must recognize these facts and be willing to let the manufacturer take the lion's share, not as a gift, but because they earn it by their capital and skillful management, without which there would be no profit for either party.

Heretofore we have considered the value of New Britain patents to the public and to the manufacturers. Some may ask what were these same patents worth to the inventors? We have not sufficient data to answer specifically. In one case, a very valuable patent whose value has hereinbefore been stated, the sum named was the actual price paid for it, and I may add that the amount could truthfully have been made larger, for it was considered not only a good paying investment but a source of much profit. The prices paid for quite a number of patents have run well up into the thousands, and in many cases New Britain inventors receive handsome royalties. No doubt many inventors have received almost nothing for patents that have paid well, while others have received good round prices for their patents from manufacturers who received nothing. Many assign patents to their employers for no other consideration than their

regular salary. While they may not thus receive what they would like, it is no doubt better for them to let their inventions go for what they can get than it would be to hold them back and not get anything. Especially is this the case where the employer pays all the bills and the inventor runs no risk of any kind, for he is then sure that all such patents will be paying patents so far as he is concerned. Many an inventor has made himself well off here in New Britain, in connection with some mechanical occupation, but none so far as I know has ever made a living on inventions alone.

Our manufacturers have been fortunate in having two such able lawyers as the Hon. C. E. Mitchell and J. P. Bartlett, Esq., to look after their patent litigation. While we may regret their loss we have been honored by the fact that they resided here until well established in their profession. We may also claim R. C. Mitchell, Esq., as a New Britain patent lawyer, whereby we have furnished three members to the New York law firm of Mitchell, Bartlett & Brownell.

There has been some litigation over patents by New Britain parties, but, considering the extent of our manufactures, we have had rather less than the average amount of patent suits. There has been practically no patent litigation between our own manufacturers, although one suit was brought that never came to trial. We have sued but a few outside parties and in the greater part of our patent suits we have been the defendants. We are not in fault for this for such suits are often brought unjustly. We do not recall a New Britain patent on which more than one suit has ever been tried, except the Turnbull & Webb patent of 1872, for a Bed Bottom. The great difference between the retail price of this bed and those before made gave it a very ready sale and the large profit made on the bed, even at this low price, proved a great temptation to infringe. Several parties tried

to take the substance of the invention and yet evade the patent, so that it was necessary to bring suit after suit. The defendants made some changes from the form of fabric shown in the patent, and no doubt some of them thought that they had effectually evaded the patent, but I believe the suits on it were generally successful. Sometimes a party permits an infringement rather than be at the expense and trouble of a suit. It is very seldom that a patent suit costs less than a thousand dollars. Most of them cost several times that. We know of a case for which illustrative models of three prior patents were made for use in defense at a cost of three thousand dollars for the models alone. It is no wonder that manufacturers wish to avoid patent litigation when it is thus expensive. A party may suppose that he is having nothing to do with patents and yet be liable to be sued. In fact a manufacturer who does not own patents and, therefore, is unfamiliar with patent matters is more likely to stumble into infringement than is the manufacturer who is making patented goods. As a rule, our New Britain patents have been respected. It is seldom that a manufacturer will knowingly infringe, although some try to take all the ideas they can from a patent without coming squarely within the claim. It is wonderful sometimes to see how much respect is given to a patent stamp on an article. Sometimes royalties have been paid to owners of patents when the manufacturer knew that his goods were not fairly within the patent, just for the privilege of marking the articles made with the date of the patent. This sometimes keeps others from making the goods almost as well as if the goods were clearly within the patent. Several times parties have consulted me as to whether or not certain constructions would infringe certain patents after the patents had expired. In one case the patent on which my opinion was desired had been public property for over six years.

We often hear of inventions being stolen, but, as a rule, these allegations of theft are founded upon some misunderstanding. Inventors sometimes think others are stealing their ideas if they make any improvement on the same kind of an article as the one they have patented. As to stealing inventions by wrongfully patenting them, it should be remembered that to suggest the making of a certain thing without giving instructions how to carry out the suggestion is not an invention, and the workman who follows the instructions of an inventor and adds thereto the common and expected skill of a mechanic in producing a new thing is not an inventor. Not knowing this to be the law, the man who makes a suggestion and the mechanic often accuse the lawful inventor of stealing their inventions. Again the one who only made the suggestion or the mechanic who did the work sometimes wrongfully take a patent and of course they are accused of theft, although they may have honestly believed that they were rightfully the real inventor. The intentional theft of an invention is believed to be rarely made in New Britain. Some years ago I prepared a drawing and specification for a New Britain man. He showed these to another person and remarked that although he had invented the thing and had gone thus far toward a patent he thought he would drop the matter where it was. In due time a patent came out to that other person and upon ordering a copy of the same it was found that he had not only sworn falsely and stolen the invention, but that he had actually stolen the drawing that was prepared for the real inventor and used that stolen drawing in making his application for the patent. The real inventor declared that he had not given anyone permission to take the drawing, nor to patent the invention, and in fact he could not make another person an original and first inventor, as the law requires, even if he had abandoned the invention. The original drawing, which was thus surreptitiously taken from the inventor's office, had the signature

of my draftsman on it, and the person taking the drawing did not even take the precaution to erase the said signature so that it appeared in the drawing of the patent. There was no pretense of any claim of right on the part of this patentee. It is the only clear case of stealing an invention that I have ever known in New Britain.

On the whole we may well be proud of our inventors and the rank of our city in the inventive world. In many cases we have been the first to place certain kinds of goods on the market and of other articles that some had attempted to sell, we were the first to produce goods that were satisfactory to the trade. In connection with our 1447 patents prior to 1900, we have the names of three hundred and forty-four different patentees. According to the reports of the Commissioner of Patents, no State has ever taken out more patents in proportion to the population than Connecticut during the last twenty years. For thirty years we have stood first with the exception of four years when we were second, having been beaten by the District of Columbia in 1876, and again in 1878; by Mass. in 1879, and by Kansas in 1881. No doubt we were in the lead for many years longer but we cannot speak definitely because the Commissioner's reports prior to 1870 have no table of the number of patents for the different states.

There is no country that leads the United States in the matter of inventions and, as Connecticut stands first in the Union, so New Britain stands first of all the towns in the state. During the ten years preceding 1900 the average for the state according to the population was one patent each year to every 908 persons. During the same time New Britain had one patent each year for every 367 persons, almost three times as many as the general average for the state. This, of course, was based on the census of 1890 and relates to the State at large. Considered with reference to

the different manufacturing towns, we find that in the year 1899 Hartford had 156 patents, New Haven 103, Bridgeport 90, New Britain 67, Waterbury 65, Meriden 37, Norwich 18, Stamford 15, Danbury and Ansonia 14 each, and Bristol 13, no other town having more than 12. When compared with the census of 1890, New Britain leads all these places in the following order: New Britain, Hartford, Waterbury, Bridgeport, Bristol, Meriden, Ansonia, New Haven, Stamford, Norwich and Danbury. Of the largest of these towns, according to the census of 1900, the number of patents issued in 1899 in proportion to the population of New Britain was one to every 420, Hartford one to 511, Waterbury one to 705, Bridgeport one to 788 and New Haven one to 1048. Hartford is the only town that comes anywhere near us and may beat us some years, but we lead in 1899, and we believe, as a rule, we are the banner town of the banner state in the banner nation and at *the head of the inventive world*.

Besides the direct value that these patents have been to the inventors, the manufacturers, and to purchasers and users, there is an immense, although indirect, value to the community, by reason of the capital invested, the large number of men employed and the general increase in the business of the town. Our inventions alone have not made us what we are, but when woven in with the other elements of society they have produced a fabric of prosperity that clothes our city with wealth and fame. Our Government drew upon New Britain for one of the best Commissioners of Patents that it ever had, the Hon. Charles E. Mitchell. His first patent case was that of the Middletown Tool Co. vs. Oliver S. Judd, in relation to a snap-hook. It was tried in February 1867, Mr. Mitchell being of Counsel for Defendant. Charles M. Keller, Esq., of New York, then one of the ablest and most experienced Patent Lawyers in the country, was one of his opponents. The patent involved

was a very narrow one and, incidentally, Mr. Mitchell remarked that the Government should not grant such trifling patents, to which Mr. Keller replied with great emphasis, "I tell you young man, these little patents are the wealth of Connecticut." Mr. Mitchell says that the remark, in connection with the emphasis with which it was made, made a great impression upon him and colored all his subsequent views as to the propriety of granting a patent for an invention of limited scope. By a study of our patents we emphasize the fact that these little patents are the wealth of New Britain.

NUMBER OF NEW BRITAIN PATENTS

BY YEARS.

1810.....	1	1872.....	33
1812.....	1	1873.....	42
1829.....	1	1874.....	27
1832.....	1	1875.....	22
1833.....	1	1876.....	36
1837.....	1	1877.....	42
1844.....	1	1878.....	19
1847.....	1	1879.....	28
1848.....	1	1880.....	34
1850.....	3	1881.....	37
1851.....	2	1882.....	34
1852.....	2	1883.....	39
1856.....	2	1884.....	47
1857.....	2	1885.....	35
1858.....	14	1886.....	42
1859... ..	4	1887.....	32
1860	10	1888.....	35
1861.....	7	1889.....	51
1862.	16	1890.....	60
1863.....	4	1891.....	45
1864.....	7	1892.....	64
1865.....	10	1893.....	62
1866.....	27	1894.....	49
1867.....	29	1895.....	34
1868.....	39	1896... .	45
1869.....	34	1897.....	48
1870.....	29	1898.....	46
1871.....	23	1899.....	67

¹ TOTAL—1447.

NUMBER OF NEW BRITAIN PATENTS

BY DECADES.

1790 to 1800	0
1800 to 1810	0
1810 to 1820	2
1820 to 1830	1
1830 to 1840	3
1840 to 1850	3
1850 to 1860	29
1860 to 1870	202
1870 to 1880	301
1880 to 1890	386
1890 to 1900	520
TOTAL.....	1,447

NEW BRITAIN PATENTS

ARRANGED ALPHABETICALLY BY PATENTEES.

Abbe, Edwin W.

397,680	Feb.	12, 1889	Sash-cord fastener.
411,486	Sep.	24,	Sash-cord fastener.
423,978	Mar.	25, 1890	Bottle stopper.

Adams, George E.

489,596	Jan.	10, 1893	Cast-off for suspender ends.
491,630	Feb.	14,	Cast-off buckle.
492,131	"	21,	Suspender end cast-off.
496,630	May	2,	Garment supporter.
498,754	June	6,	Pulley for garment supporters.
499,773	"	20,	Garment supporter.
507,704	Oct.	31,	Buckle or metallic garment supporter.
507,705	"	"	Buckle or metallic fastener.
507,871	"	"	Garment supporter.
508,076	Nov.	7,	Garment supporter.
520,025	May	22, 1894	Clinch-back for suspender buckles.
521,071	June	5,	Suspenders.
521,775	"	26,	Garment supporter.
528,624	Nov.	6,	Cast-off for suspenders.
528,625	"	"	Sheet-metal suspender buckle.
530,318	Dec.	4,	Cast-off for suspender ends.
537,955	Apr,	23, 1895	Clasp.
537,956	"	"	Garment supporter.

542,215	July 2, 1895	Garment fastener.
543,715	July 30,	Clasp for garment supporters.
544,944	Aug. 20,	Garment supporter.
551,807	Dec. 24,	Cast-off.
558,580	Apr. 21, 1896	Fastener for gloves.
560,670	May 26,	Clasp.
563,540	July 7,	Cast-off for garment supporters.
566,731	Sep. 1,	Fastener for gloves.
585,071	June 22, 1897	Cast off for suspenders.
613,874	Nov. 8, 1898	Separable fastener.
615,056	" 29,	Envelope fastener.
615,336	Dec. 6,	Separable fastener.
615,776	" 13,	Socket member for separable fasteners.
616,399	" 20,	Stud member for separable fasteners.
616,758	" 27,	Stud member for separable fasteners.
617,269	Jan. 3, 1899	Stud member for separable fasteners.
617,624	" 10,	Separable fastener.
618,761	" 31,	Suspender buckle.
619,651	Feb. 14,	Tool for setting members for separable fasteners.
624,896	May 16, 1899	Separable fastener.
627,961	July 4,	Stud member for separable fasteners.
628,618	" 11,	Stud member for separable fasteners.
647,212	April 10, 1900	Garment supporter.
22,336	" 11, 1893	Design for a buckle.
22,337	" "	Design for a buckle.
22,868	Nov. 7,	Design for a buckle.
28,346	March 8, 1898	Design for a socket member for detachable fasteners.
28,879	June 14,	Design for a trimming for garment supporters.
28,917	June 28,	Design for a stud member for detachable fasteners.
31,912	Nov. 28, 1899	Design for a garment supporter loop.
31,994	Dec. 19,	Design for a garment supporter loop.
32,207	Feb. 6, 1900	Design for body portion of garment supporter loops.
33,065	Aug. 14,	Design for suspender-end body.

- 33,635 Dec. 4, 1900 Design for metallic member for garment supporters.
 33,636 Dec. 4, Design for metallic loop for garment supporters.

Adt, John.

- 162,991 May 11, 1875 Machine for pointing staples.

Allen, Howard D.

- 479,582 July 26, 1892 Sheet metal latch bolt.

Alpress, Edward A.

- 250,329 Dec. 6, 1881 Machine for making hooks.
 270,362 Jan. 9, 1883 Machine for bending screw hooks and eyes.
 270,570 " 16, Making screw eyes.
 376,843 " 24, 1888 Taper attachment for lathes.
 386,177 " 17, Universal attachment for engine lathes.

Alport, William.

- 85,352 Dec. 29, 1868 Door bell.
 86,119 Jan. 26, 1869 Cattle tie.
 101,699 April 12, 1870 Door bell.
 4,214 July " Design for a door bell.

Andrews, Edward N.

- 216,301 June 10, 1879 Blacking brush.
 505,342 Sep. 19, 1893 Water wheel.

Andrews, Elijah A.

- 7,981 March 18, 1851 Trunk handle.
 55,219 June 5, 1866 Snap hook.

Arens, August,

- 286,250 Oct. 9, 1883 Reversible store door latch.
 416,248 Dec. 3, 1889 Latch and lock case.
 471,595 March 29, 1892 Lock.
 471,594 " " Lock.
 471,595 " " Lock.
 475,914 May 31, Lock.

621,013	March 14, 1899	Bell striker.
645,930	" 27, 1900	Bell.
660,240	Oct. 23,	Door check.

Arens, August, & Frank W. Mix.

333,656	Jan. 5, 1886	Cupboard latch.
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Arnold, Fred H.

22,563	June 27, 1893	Design for cutlery handles.
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Arnold, Harry B.

31,280	July 25, 1899	Design for a lantern bracket.
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Arnold, Owen P.

31,583	Oct. 3, 1899	Design for a clock case.
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Arnold, Stephen D.

56,872	Aug. 7, 1866	Bridle bit.
105,409	July. 19, 1870	Shutter fastening.
116,006	June 20, 1871	Sash fastener.
138,360	April 29, 1873	Door bolt.
139,647	June 10,	Door flush bolt.
161,652	April 6, 1875	Sash fastener.
635,368	Oct 24, 1899	Hinge.
648,016	April 24, 1900	Hinge.
1,517	Jan. 21, 1862	Design for a lift or handle.
1,624	Aug. 12,	Design for a lifting handle plate for coffins.
2,079	June 6, 1865	Design for a coffin handle.
2,380	Aug. 14, 1866	Design for a coffin handle.
2,381	" "	Design for coffin trimmings.
2,382	" "	Design for coffin trimmings.
2,383	" "	Design for coffin trimmings.
2,384	" "	Design for coffin trimmings.
2,385	" "	Design for coffin trimmings.
2,386	" "	Design for coffin trimmings.

- 2,721 Aug. 6, 1867 Design for a casket handle.
 3,049 May 26, 1868 Design for a cupboard latch.

Arnold, Wilbur F.

- 78,175 May 26, 1868 Snap hook lock.
 85,264 Dec. 29, Lifting jack.
 134,625 Jan. 7, 1873 Lifting jack.

Arnold, Wilbur F. & Ogden L. Steele.

- 89,191 April 20, 1860 Door bolt, etc.

Ashley, Edwin D. & George Ashley.

- 527,921 Oct. 23, 1894 Meat cutter.

Ashley, George.

- 605,836 June 21, 1898 Combined door closer and check.
 663,844 Dec. 18, 1900 Door check and closer.

Ashley, George & Edwin D. Ashley.

- 527,921 Oct. 23, 1894 Meat cutter.

Astley, Edwin.

- 149,630 April 14, 1874 Wash bench.

Aston, Alonzo.

- 88,261 March 30, 1869 Reversible knob latch.

Atwood, C. H.

- 70,499 Nov. 5, 1867 Snap hook.

Babcock, Edward C.

- 392,397 Nov. 6, 1888 Garment supporter.
 402,885 May 7, 1889 Display rack.

Bailey, Frank M.

- 350,613 Oct. 12, 1886 Bench plane.
 401,532 April 16, 1889 Bench plane.
 402,886 May 7, Bench plane.

Bailey, Leonard.

113,003	March 28, 1871	Plane stock.
114,634	May 9,	Adjustable try-square.
145,715	Dec. 23, 1873	Try-square.
157,566	" 8, 1874	Hardening the blades of squares.
170,930	Dec. 14, 1875	Safety rein-hold.

Bailey, Leonard, & Charles G. Miller.

165,356	July 6, 1876	Dado plane.
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Bailey, Leonard, & Samuel D. Sargent.

124,779	March 19, 1872	Carpenter's bevel.
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Baker, Burton E.

426,605	Sep. 25, 1894	Rheostat.
572,467	Dec. 1, 1896	Electric heater.

Baker, George M.

316,219	April 21, 1885	Sash fastening.
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Barclay, Andrew.

62,993	March 19, 1867	Injector for steam generators.
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Barkentin, George S.

11,794	June 1, 1880	Design for a key-bow.
11,963	Sep. 14,	Design for a knob-rose.
12,050	Dec. 7,	Design for a key-bow.
12,051	" "	Design for a key-bow.
12,059	" "	Design for a key bow.
12,077	" 28,	Design for a key-bow.
12,855	April 11, 1882	Design for ornamental panels on articles of builder's hardware.
13,568	Feb. 6, 1883	Design for ornamental panels on articles of builder's hardware.
15,124	July 8, 1884	Design for ornamentation of trunk locks.
16,947	Oct. 26, 1886	Design for a bracket.
17,255	April 12, 1887	Design for a hinge.

17,338	May 10, 1887	Design for a knob and latch escutcheon plate.
17,339	" "	Design for a door knob.
18,584	Sep. 4, 1888	Design for the surface ornamentation of builder's hardware.
19,077	May. 7, 1889	Design for the ornamentation of builder's hardware.
19,442	Nov. 26,	Design for a latch case.
19,443	" "	Design for a latch case.
19,444	" "	Design for a hinge.
19,545	Dec. 31.	Design for the ornamentation of builder's hardware.
19,553	Jan. 7, 1890	Design for a latch case.
20,035	July 15,	Design for an escutcheon plate for door knobs and locks.
20,036	" "	Design for a hinge.
20,082	Aug. 12, 1890	Design for a hinge.

Bassett, Milton H.

292,463	Jan. 29, 1884	Gage for adjusting locks.
401,535	April 16, 1889	Door check.

Bastian, John H.

23,474	July 17, 1894.	Design for a hold back.
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Beam, Alfred, & Edward H. Davison.

177,060	May 9, 1876	Cartridge loading implement.
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Beam, Alfred, & William H. Thornton.

202,606	April 16, 1878	Rubber butt-plate for guns.
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Beaton, Allan J.

453,461	June 2, 1891	Floor and ceiling plate for steam pipes.
497,512	May 16, 1893	Pipe hanger.
528,319	Oct. 30, 1894	Pipe hanger.

Beers, John W. A.

233,135	Oct. 12, 1880	Die for making sheet metal hinge blanks.
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Beetison, Israel.

59,948 Nov. 27, 1866 Expanding mandrel.

Bennett, Thomas E.

613,231 Nov. 1, 1898. Toilet fixture.

Bennett Walter E.

260,153 June 27, 1882 Feeding mechanism for button sewing machines.

Bidwell, Henry L.

March 8, 1833 Cooking stove or digestive furnace.

Bishop, Charles B.

636,947 Nov. 14, 1899 Coin box.

Blair, Charles A.

121,926 Dec. 19, 1871 Fruit box.

126,440 May 7, 1872 Fruit box.

Blake, Henry D.

49,468 Aug. 15, 1865 Padlock.

52,241 Jan. 23, 1866 Molasses faucet.

75,663 March 17, 1868 Hinge riveting machine.

75,724 " 24, Butt-hinge making machine.

125,530 April 9, 1872 Door bell.

Blakeslee, Charles.

176,768 May 2, 1876 Hoof cleaner.

Boardman, Ralph H.

647,071 April 10, 1900 Electric indicator for doors.

Bodmer, Christian, & Justus A. Traut.

515,063 Feb. 20, 1894 Plane.

540,283 June 4, 1895 Plane.

- 562,678 June 23, 1896 Machine for graduating glasses or tubes.
 562,679 " 23, " Marking level glasses.

Booth, Samuel

- June 1, 1832 Brazing and bronzing bells for cows, etc.

Bower, William.

- 553,833 Feb. 4, 1896 Napkin holder.

Bradford, Purmot, & Joseph B. Sargent.

- 1,345 Nov. 13, 1860 Design for a drawer-pull.

Bradley, William S.

- 593,639 " 16, 1897 Ledger-board support for scaffolds.

Brady, Thomas H.

- 78,180 May 26, 1868 Lantern.
 96,545 Nov. 9, 1869 Faucet connection.
 193,217 July 17, 1877 Shears for tinsmiths.
 196,624 Oct. 30, Bottle stopper.
 338,919 March 30, 1886 Suspending electric lights.
 338,920 " " Apparatus for suspending electric lights.
 339,371 April 6, Cap iron for poles for suspending electric lights.
 359,916 March 22, 1887 Electric lamp frame.
 387,044 July 31, 1888 Storm protector for electric lamps.
 390,440 Oct. 2, 1888 Storm protector for electric lamps.
 398,489 Feb. 26, 1889 Support for electric railway wires.
 413,220 Oct 22, Holding attachment for arc lamps.
 421,480 Feb. 18, Windlass.
 437,883 Oct. 7, Pulley attachment for electric lamps.
 442,415 Dec. 9, Pulley attachment for electric lamps.
 453,036 May 26, 1891 Adjustable support for electric wires.
 463,773 Nov. 24, 1891 Means for suspending electric lamps.
 476,604 June 7, 1892 Insulator bracket.
 497,515 May 16, 1893 Insulator.
 544,781 Aug. 20, 1895 Electric switch.
 555,922 March 10, 1896 Insulating support for boxes containing electrical apparatus.

560,255	May 19, 1896	Hanger for electric arc lamps.
580,678	April 13, 1897	Electric switch.
583,452	June 1,	Electric switch.

Brand, Frederick J.

353,730	Dec. 7, 1886	Shifting carriage top.
384,557	June 12, 1888	Bustle.

Brand, John S.

373,122	Nov. 15, 1887	Octave-coupler.
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Breed, Edwin S.

557,049	March 24, 1896	Means for supporting motors and motor frames.
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Brockseiper, Frederick M.

45,581	Dec. 27, 1864	Flat iron holder.
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Brockseiper, Frederick W. &

Jeseph B. Sargent.

20,238	May 11, 1858	Sash fastener.
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Brooks, Asa T.

55,052	May 29, 1866.	Reversible lock or latch.
72,791	Dec. 31, 1867	Door bell.
77,165	April 28, 1868	Key hole guard.
79,308	June 30,	Door bell.
92,151	July 6, 1869	Knob latch.
92,152	" "	Knob latch.
92,153	" "	Knob latch.

Brooks, Asa T., & Wallace T. Munger.

211,832	Feb. 4, 1879	Lock.
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Brouillard, Anthony J.

475,960	May 31, 1892	Gong door bell.
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Brown, George S.

578,859	March 16, 1897	Lantern.
580,569	April 13,	Lantern.

Brown, Robert S.

481,780	Aug. 30, 1892	Universal coupling.
621,026	March 14, 1899	Chain mortising machine.
632,694	Sep. 12,	Saw clamp.
642,073	Jan. 30, 1900	Mortising machine.

Brown, William A., & Henry G. Parsons.

428,130	May 20, 1890	Belt fastener.
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Bulkley, Henry C., & Amos Shepard.

89,023	April 20, 1869,	Pump valve.
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Burgess, Charles M.

221,152	Nov. 4, 1879	Spring coal tongs.
249,156	" 8, 1881	Fire iron holder.
311,160	Jan. 20, 1885	Fire shovel.
311,953	Feb. 10,	Handle for drawers.
338,337	March 23, 1886	Sash fastening device.
346,463	Aug. 3,	Drawer-pull.
396,915	Jan. 29, 1889	Lock case.
396,916	" 29,	Latch case.
399,239	March 12,	Sheet metal lock case.
399,240	" "	Lock case.
401,247	April 9,	Manufacture of key-blanks.
404,892	June 11,	Latch case.
408,688	Aug. 13,	Lock case.
412,365	Oct. 8,	Sheet metal lock case.
421,381	Feb. 18, 1890	Sheet metal latch keeper.
421,905	" 25,	Sheet metal latch case.
425,748	April 15,	Lock case.
435,554	Sep. 2,	Lock or latch bolt.
435,555	" "	Reversible latch.
438,677	Oct. 21,	Lock.
444,557	Jan. 13, 1891	Knob shank.
465,158	Dec. 15,	Sash fastener.

472,725	April 12, 1892	Knob attachment.
487,712	Dec. 13,	Sash cord guide.
502,612	Aug. 1, 1893	Door bell.
503,450	" 15,	Knob attachment.
507,992	Nov 7,	Door bell.
512,275	Jan. 9, 1894	Transom lifter.
576,431	Feb. 2, 1897	Door check.
612,397	Oct. 18, 1898	Lock case.
632,234	Sep. 5, 1899	Coat and hat hook.
23,731	Oct. 23, 1894	Design for a shelf bracket.
30,691	May 2, 1899	Design for a door check frame.
30,692	" "	Design for a door check frame.

**Burgess, Charles M., & Sherman
P. Cooley.**

391,024	Oct., 16, 1888	Manufacture of knob shanks.
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**Burgess, Charles M., & R. Sanford,
Newington, Conn.**

234,387	Nov. 16, 1880	Sash fastening.
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Burgess, Charles M. & Henry G. Voight.

450,353	April 14, 1891	Stop for latches.
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Burkarth, Michael J.

218,365	Aug. 12, 1879	Bracket.
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Burns, Edward,

621,896	March 28, 1899	Door bolt,
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Burton, James L.

615,800	Dec. 13, 1898	Bottle.
617,952	Jan. 17, 1899	Medicine glass.

Burwell, Lynus.

Nov. 25, 1829	Door spring.
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Butler, Edwin B.

56,897	Aug. 7, 1866	Eyelet making machine.
72,719	Dec. 31, 1867	Hub band.

Butler, John W.

134,729	Jan. 14, 1873	Gage.
222,009	Nov. 25, 1879	Call bell.
247,610	Sep. 27, 1881	Call bell.

Camp, Bushrod H.

409,559	Aug. 20, 1889	Frame for doors of post office lock boxes.
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Campbell, Wareham S.

382,950	May 15, 1888	Governor for wind wheel shafts.
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Canfield, John F.

595,604	Dec. 14, 1897	Support for scaffold ledger-boards.
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Carleton, George D.

174,475	March 7, 1876	Attaching pump-barrels to their bases.
174,476	" "	Spring hinge.

Carleton, John W.

112,417	March 7, 1871	Butt hinge.
302,649	July 29, 1884	Reversible jaw for lathe chucks.
627,480	June 27, 1889	Drill chuck.

Carter, Josiah S.

498,233	May 30, 1893	Drive chain link.
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Case, Cromwell O.

407,817	July 30, 1889	Making parts of hollow door knobs.
409,010	Aug. 13,	Door knob.
414,972	Nov. 12,	Making sash cord pulleys.
421,668	Feb. 18, 1890	Making pulleys.
421,669	" "	Wrought metal pulley.
421,670	" "	Door knob.

475,930	May 31, 1892	Pneumatic door check.
487,416	Dec. 6,	Knob attachment.
523,146	Oct 30, 1894	Door stop.
523,147	" "	Door knob.
528,853	Nov. 6,	Door check or closer.
533,839	Feb. 5, 1895	Knob attachment.
592,236	Oct. 26, 1897	Door check and closer.
598,194	Feb. 1, 18 8	Extension bolt.
599,415	" 22,	Lever connections for door checks and closers.
606,643	July 5,	Transom center.
627,717	June 27, 1899	Door check.
629,001	July 18,	Liquid door check.
632,697	Sep. 12,	Liquid door check.
29,042	July " 1898	Design for a casing for door checks.

Case William, S.

258,988	June 6, 1882	Bench plane.
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Casey, Michael.

199,515	Jan. 22, 1878	Window frame.
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Chambers, James.

292,202	Jan. 22, 1884	Sash fastening.
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Chambers, Moses.

423,217	March 11, 1890	Sash fastener.
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Chapin, Samuel N.

94,280	Aug. 31, 1869	Ferrule.
95,426	Oct. 5,	Sash cord attachment.
332,325	Dec. 15, 1885	Sash fastener.
584,035	June 8, 1897	Automatic weighing machine.

Chapin, Samuel N., & Augustus Stanley.

68,603	Sep. 10, 1867	Adjusting spirit-level.
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Chapman, William, & Edward H. Davison.

179,403 July 4, 1876 Putting unfinished work on knitting machines.

Chase, George, M., Jr.

246,459 Aug. 30, 1881 Wagon wheel.

Christesen, Rodolphe, W. E.

11,620 Feb. 3, 1880 Design for door escutcheons.
 11,758 May 4, Design for a hinge.
 11,808 June 8, Design for a chandelier hook.
 11,809 June 8, Design for a chandelier hook.
 12,041 Nov. 30, Design for a stand for fire irons, etc.
 12,376 Aug. 2, 1881 Design for push or finger plates for doors.
 12,377 " " 1892 Design for a drop-letter plate and bell lever.
 12,378 " " Design for a bell lever and plate.
 12,379 " " Design for a drop letter plate.
 12,550 Nov. 1, 1881 Design for a door knob.
 13,101 Aug. 1, 1882 Design for a fire iron stand.
 14,838 March 4, 1884 Design for a lamp bracket.
 16,906 Sep. 21, 1886 Design for a hinge.
 17,344 May 17, 1887 Design for ornamentation of builder's hardware
 19,129 June 4, 1889 Design for a lock case.
 19,188 July 2, Design for a lock case.
 19,323 Oct. 1, Design for a door lock case.
 19,639 Feb. 11, 1890 Design for a latch case.
 20,099 Aug. 12, Design for a lock case.
 21,706 July 12, 1892 Design for a knob and lock escutcheon.
 21,769 Aug. 9, Design for a door knob.
 30,429 March 28, 1899 Design for a gong for bells.
 30,430 " " Design for a gong for bells.

Clark, Charles B.

396,192 Jan. 15, 1889 Composition for cleaning the teeth.

Clark, H. M.

14,086 Jan. 15, 1856 Bolt heading machine.
 18,135 Sep. 8, 1857 Wrench.

Clark, Henry M.

195,480	"	25, 1897	Circular plane.
195,481	"	"	Bench plane.
378,494	Feb.	28, 1888	Bench plane.

Clement, Nathan S.

62,938	March	19, 1867	Awl handle.
82,601	Sep.	29, 1868	Fruit basket.
88,544	April	6, 1869	Casting handles of table cutlery.

Coholan, Michael J.

318,452	May	26, 1885	Ventilated sewer pipe.
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Comings, William R.

191,516	June	5, 1877	Telescopic or hydraulic elevator.
192,637	July	3,	Applying power in steam, air or gas engines.
448,748	March	24, 1891	Machine for making cup-shaped articles.

Conklin, Thomas A.

71,986	Dec.	10, 1867	Manufacturing tack hammers.
128,020	June	18, 1872	Ice pick and meat maul combined.

Cooke, William Z.

131,743	Oct	1, 1872	Spring bed bottom.
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Copkson, Charles W. & Job Dyson.

310,803	Jan.	13, 1885	Carding machine for the manufacture of mottled rovings.
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Cooley, Charles A.

258,022	May	16, 1882	Commutator for dynamo electric machines.
267,155	Nov.	2,	Electric arc lamp.

Cooley, Sherman P.

439,120	Oct.	28, 1890	Attaching knobs to their shanks.
535,050	March	5, 1895	Knob.

Cooley, Sherman P. & Charles M.
Burgess.

391,024 Oct. 16, 1888 Manufacture of knob shanks.

Corbin, Hezekiah H.

93,809 Aug. 17, 1869 Paper box.

Corbin, Frank.

138,862 May 13, 1873 Handle plate for door latches.

166,605 March 30, 1875 Lock for sliding doors.

Corbin, Wilbur R. & William K. Henry.

641,841 Jan. 23, 1900 Door.

650,036 May 22, Hinge for double acting doors.

Corscaden, Thos.

366,996 July 19, 1887 Shutter fastener.
451,969 May 12, 1891 Lock hinge.
452,834 " 26, Caster.
460,678 Oct. 6, Lock hinge.
462,238 Nov. 3, Manufacture of hinges.
467,659 Jan. 26, 1892 Manufacture of drive chain links.
467,668 " " Sash cord guide.
472,635 April 12, Blind fastener.
474,546 May 10, Sheet metal pulley.
474,547 " " Sheet metal pulley.
475,439 " 24, Anti-friction hinge.
476,520 June 7, Shelf bracket.
476,521 " " Manufacture of hinges.
479,058 July 19, Hat hook.
482,723 Sep. 20, Drive chain.
483,834 Oct. 4, Shelf bracket.
493,484 March 14, 1893 Shelf bracket.
502,706 Aug. 8, Hinge.
511,590 Dec. 26, Shelf bracket.
512,685 Jan. 16, 1894 Shelf bracket.
515,194 Feb. 20, Shelf bracket.
516,475 March 13, Shelf bracket.

518,307	April 17, 1894	Drive chain.
518,308	" "	Hinge.
519,243	May 1,	Manufacturing of strap hinges.
548,296	Nov. 19, 1895	Shelf bracket.
553,497	Jan. 21, 1896	Shelf bracket.
553,955	Feb. 4,	Blind hinge.
555,722	March 3,	Shelf bracket.
557,492	" 31,	Shelf bracket.
563,450	July 7,	Anti-friction hinge.
574,107	Jan. 12, 1897	Sheet metal pulley.
575,106	" "	Pulley.
577,723	Feb. 23,	Shelf bracket.
577,977	March 2,	Sheet metal shelf bracket.
581,979	May 4,	Shelf bracket.
581,980	" "	Sheet metal shelf bracket.
584,813	June 22,	Shutter hinge.
585,431	" 29,	Shelf bracket.
595,659	Dec. 14,	Pulley.
598,215	Feb. 1, 1898	Lock hinge.
646,414	April 3, 1900	Pulley.
24,517	July 30, 1895	Design for a brace for shelf brackets
24,909	Nov. 19,	Design for a shelf bracket.
25,785	July 14, 1896	Design for a shelf bracket.
27,248	June 22, 1897	Design for a hub clamp for pulleys.
27,758	Oct. 19,	Design for a frame for pulleys.
29,543	" 25, 1898	Design for a pulley.
30,596	April 18, 1899	Design for a pulley segment.

Corscaden, Thomas, & Charles E. Hart.

425,131	April 8, 1890	Gage for press slides.
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Corscaden, Thomas, & William H. Hart.

377,104	Jan. 31, 1888	Sheet metal hinge.
18,956	March 12, 1889	Design for a hinge.

Cowles, George B.

237,491	Feb. 8, 1881	Piano lock.
237,492	" "	Chest lock.
239,937	April 12,	Trunk lock.

283,081	Aug. 14, 1883	Machine for putting springs in lock bolts.
283,326	" "	Machine for securing the key post in lock plates.
286,269	Oct. 9,	Machine for slotting and driving springs into lock tumblers.
303,988	Aug 26, 1884	Lock.
309,205	Dec. 16,	Securing cabinet locks in place.
323,564	Aug. 4, 1885	Mortise lock.
324,818	" 25,	Lock.
368,133	" 9, 1887	Machine for making lock caps.
371,823	Oct. 18,	Key.
371,824	" "	Making keys and key-blanks.
505,440	Sep. 26, 1893	Manufacture of key-blanks.

Cowles, George B., & Frank W. Mix.

331,427	Dec. 1, 1885	Trunk lock.
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Crandall, Herman E.

442,265	Dec. 9, 1890	Store service apparatus.
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Crane, W. E., & W. L. Rogers, (North Cornwall.)

73,200	Jan. 7, 1868	Railway Switch.
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Curtis, Jonas, P.

71,586	Dec. 3, 1867	Device for grinding cutlery.
81,608	Sep. 1, 1868	Machine for grinding metal articles.
115,582	June 6, 18 1	Screw driver.
176,462	April 25, 1876	Awl haft.

Davison, Edward H. and Alfred Beam.

177,060	May 9, 1876	Cartridge loading implement.
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Davison, Edward H., & William Chapman.

179,403	July 4, 1876	Putting unfinished work on knitting machines.
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Day, Arthur W.

500,865 July 4, 1893 Bed bottom.

Delavan, Marcus L., & Job Dyson.

67,030 July 23, 1867 Door bell.

Dennett, Alpheus A.

191,844 June 12, 1877 Door bolt.

**Dennett, Alpheus A., & George
H. Holmes.**

230,533 July 27, 1880 Mechanism for operating the thread
guides of straight knitting machines.

Dickinson, Charles.

563,949 July 14, 1896 Powder folding device.

571,041 Nov. 10, Holder for powder papers.

Doen, Edward,

20,338 May, 25, 1858 Window spring.

20,940 July 20, Spring bolt.

43,105 June 14, 1864 Cupboard latch.

63,621 April 9, 1867 Curtain fixture.

Doolittle, D. Edward, & William E.

280,298 June 26, 1883 Machine for putting nuts on bolts.

297,118 April 22, 1884 Shutter fastener.

420 045 Jan. 28, 1890 Machine for turning ribbed collars for
umbrellas.

Dunham, Ralph C.

58,619 Oct. 9, 1866 Buckle and ring.

336,904 March 2, 1886 Artificial leg.

Dyson, John B., & Samuel K. Paramore.

249,324 Nov. 8, 1881 Shaft coupling.

Dyson, Job.

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|--------|---------------|---------------------------|
| 81,263 | Aug. 18, 1868 | Drawers stretching frame. |
| 83,141 | Oct. 20, | Cloth Drawers. |

Dyson, Job, & Charles W. Cookson.

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|---------|---------------|---|
| 310,803 | Jan. 13, 1885 | Carding machine for the manufacture of mottled rovings. |
|---------|---------------|---|

Dyson, Job, & Marcus L. Delavan.

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|--------|---------------|------------|
| 67,030 | July 23, 1867 | Door bell. |
|--------|---------------|------------|

Eddy, Alfonzo J.

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|---------|----------------|--------------|
| 77,014 | April 21, 1868 | Meat cutter. |
| 347,477 | Aug. 17, 1886 | Meat cutter. |

Eddy, George W.

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|---------|----------------|--------------------------------------|
| 146,997 | Feb. 3, 1874 | Sewing machine caster. |
| 147,377 | " 10, | Sewing machine caster. |
| 170,439 | Nov. 30, 1875 | Toy pistol. |
| 202,798 | April 23, 1878 | Burglar alarm. |
| 237,260 | Feb. 1, 1881 | Toy pistol. |
| 247,029 | Sep. 13, | Toy pistol. |
| 11,394 | Sep. 2, 1879 | Design for a Toy fulminate exploder. |

Ellis, Sylvender.

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|--------|--------------|------------------|
| 30,570 | Nov. 6, 1860 | Washing machine. |
|--------|--------------|------------------|

Elmer, Albert E.

- | | | |
|---------|-------------|--------------------|
| 162,944 | May 4, 1875 | Automatic fly-fan. |
|---------|-------------|--------------------|

Erickson, Carle A.

- | | | |
|---------|---------------|---|
| 466,058 | Dec. 29, 1891 | Electric game register for pool tables. |
|---------|---------------|---|

Erwin, Cornelius B.

- | | | |
|-------|---------------|-------------------------------|
| 1,035 | Aug. 10, 1858 | Design for a door lock plate. |
| 1,034 | " " | Design for a door lock plate. |

Fagan, Bernard.

31,706 March 19, 1861 Quilting frame, etc.

Fagan, Robert,

409,030 Aug. 13, 1889, Sash cord fastener.

Fielding, William I.

323,572 Aug. 4, 1885 Bolster bed bottom.
544,783 " 20, 1895 Steamer bedstead.

Finch, Amon L.

8,886 April 20, 1852 Protecting car wheels and axles by incasing.

Fogelstrand, Otto F.

194,139 Aug. 14, 1877 Cupboard latch.
197,026 Nov. 13, Sash fastener.
212,676 Feb. 25, 1879 Door bell.
9,843 March 6, 1877 Design for an inkstand and match safe.
9,844 " " Design for an inkstand and match box.
9,845 " " Design for an inkstand.
10,316 Nov. 20, Design for a match safe.
10,397 Jan. 8, 1878 Design for inkstands.

Fogelstrand, Otto F., & William

E. Sparks.

206,940 Aug. 13, 1878 Sash fastener,

Forrest, Ernest J.

472,805 April 12, 1892 Knob.

Foss, Henry A.

127,333 May 28, 1872 Bell gong.
186,998 Feb. 6, 1877 Bench plane.

Foster, John R.

428,771 May 27, 1890 Reversible latch.

Fracker, Francis T.

117,113 May 9, 1876 Toilet bracket.

Fracker, Francis T., & Louis Widmayer.

9,882 April 3, 1877 Design for a hinge.

Frank, Frederick H.

545,856 Sep. 3, 1895 Right and left hand stop and waste cock.

Frary, James D.

43,677 Aug. 2, 1864 Toy gun.
 46,555 Feb. 28, 1865 Faucet for oil, etc.
 53,241 Sep. 25, 1866 Manufacture of knives and forks.
 77,026 April 21, 1868 Manufacture of table forks.
 86,524 Feb. 2, 1869 Butt.
 97,624 Dec. 7, Knife handle.
 98,369 " 28, Cutlery handle.
 113,648 April 4, 1871 Manufacturing bolsters for cutlery.
 172,874 Feb. 1, 1876 Table cutlery.
 181,665 Aug. 29, Carving fork.
 183,151 Oct. 10, Table cutlery.
 6,757 July 8, 1873 Design for table cutlery.
 7,002 Nov. 25, Design for a knife handle.
 7,078 Dec. 30, Design for table cutlery handles.
 8,817 Nov. 30, 1875 Design for table cutlery.

Friden, Henning A., & Andrew Swanson.

590,494 Sep. 21, 1897 Plow.

Frink, Stephen, & Alvin & Oliver B. North.

7,398 May 28, 1850 Machinery for making four sided buckles.

Frost, Francis N.

34,998 April 15, 1862 Coal sifter.
 56,923 Aug. 7, 1866 Bridle bit.

59,992	Nov. 27, 1866	Curry comb.
155,866	Oct. 13, 1874	Bed bottom frame.
201,662	March 26, 1878	Bottle-stopper fastener.

Frost, Francis N., & Andrew Turnbull.

168,810	Oct. 11, 1875	Lawn mower.
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Frost, Howard B.

270,542	Jan. 9, 1883	Sash fastener.
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Gates, Samuel B.

530,316	Dec. 4, 1894	Strike plate for bolts.
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Gerard, John.

171,931	Jan. 11, 1876	Carving fork.
247,037	Sep. 13, 1881	Carving fork.
247,038	" "	Carving fork.
262,219	Aug. 8, 1892	Latch.
303,833	" 19, 1884	Inkstand.
368,824	" 23, 1887	Meat cutter.
380,200	March 27, 1888	Egg beater.
459,108	Sep. 8, 1891	Spring scale.
7,386	April 21, 1874	Design for a drawer pull.
7,454	May 26,	Design for a drawer pull.
7,470	June 2,	Design for a drawer pull.
8,597	Sep. 7, 1875	Design for a coffee mill.

Gerard, John, & Charles F. Smith.

345,044	July 6, 1886	Carving fork.
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Gerard, John, & Andrew Turnbull.

177,499	May 16, 1876	Fire apparatus.
190,573	" 8, 1877	Fire escape (hydraulic.)

Gerard, John & Rodolphus L. Webb.

377,555	Feb. 7, 1888	Molasses gate.
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Gilfillan, William.

473,456	April 26, 1892	Combined door check and spring.
488,651	Dec. 27,	Combined door check and spring.
497,651	May 16, 1893	Door check.
534,999	March 5, 1895	Door check.

Glover, Charles.

436,523	Sep. 16, 1890	Sheet metal knob.
447,510	March 3, 1891	Coat and hat hook.
448,224	" 17,	Manufacture of coat and hat hooks.
453,424	June 2,	Manufacture of wardrobe hooks.
465,259	Dec. 15,	Coat and hat hook.
515,670	Feb. 27, 1894	Manufacture of brackets for transom lifters.
538,907	May 7, 1895	Butt-hinge pin and tip.
600,864	March 22, 1898	Transom lifter.
625,443	May 23, 1899	Making hinges.
626,204	" 30,	Hinge.
631,501	Aug. 22,	Hinge.
636,330	Nov. 7,	Hinge.
636,331	" "	Hinge.
636,332	" "	Hinge.
29,828	Dec. 20, 1898	Design for a bicycle pedal member.
29,829	" "	Design for a bicycle pedal member.
29,830	" "	Design for a bicycle pedal.

Goodrich, Ransom, E.

635,380	Oct. 24, 1899	Electroplating apparatus.
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Gorman, William.

3,533	June 8, 1869	Design for a hinge.
3,578	July 13,,	Design for a lock face-plate.
3,606	Aug. 10,	Design for a door escutcheon.
3,607	" "	Design for a door escutcheon.
3,608	" "	Design for a door escutcheon.
3,615	" 17,	Design for a door escutcheon.
3,732	Nov. 2,	Design for a door knob or rose.
3,733	" 2,	Design for a butt hinge.
3,873	March 1, 1870	Design for an outside door latch.
3,915	" 22,	Design for a drawer pull.

3,916	March 22, 1870	Design for a door escutcheon.
4,034	May 17,	Design for a sliding door lock face-plate.
4,160	June 21,	Design for a sash fastener.
4,335	Sep. 6,	Design for a cupboard latch.
4,474	Nov. 15,	Design for a car lock.
5,938	June 18, 1872	Design for a shutter bar.
5,939	" "	Design for a bell crank and rose.
5,961	July 25,	Design for a letter box plate.
6,867	Sep. 2, 1873	Design for a lock escutcheon plate.
7,018	Dec. 9,	Design for a butt hinge.
7,019	" "	Design for a door knob rose.
7,020	" "	Design for a door knob.
7,021	" "	Design for key hole escutcheons.
7,068	" 23	Design for a knob rose and escutcheon.
7,093	Jan 6, 1874	Design for a door knob and rose.
7,362	April 7,	Design for a mail box front.
108,778	Nov. 1, 1870	Sash fastener.
174,626	March 14, 1876	Handle plate for door latches.

Gridley, Wilmer D.

75,750	March 24, 1868	Curtain fixture.
83,058	Oct 13,	Toy pistol.
85,738	Jan. 12, 1869	Picture hook.
89,307	April 27,	Book holder.

Hale, Albert W.

21,355	Aug. 31, 1858	Portable house bell.
23,246	March 15, 1859	Meat mincer.
25,260	Aug. 30,	Fastening for hoop skirts.

Harkness, Hiram W.

97,396	Nov. 30, 1869	Lantern.
98,590	Jan. 4, 1870	Lawn mower.

Hart, Charles E.

294,035	Feb. 26, 1884	Hinge.
471,610	March 29, 1892	Inside corner iron.
473,392	April 19,	Drive chain.

476,635	June	7, 1892	Drive chain.
476,636	"	7,	Latch handle.
476,637	"	7,	Drive chain.
477,895	"	28,	Drive chain coupling link.
523,346	July	24, 1894	Drive chain link.
524,483	Aug.	14,	Pintle for blind hinges.

Hart, Charles E., & Thomas Corscaden.

425,131	April	8, 1890	Cage for press slides.
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Hart, Charles E., & William H. Hart.

488,808	Dec.	27, 1892	Drive chain,
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Hart, Charles E., & Clarence A. Taplin.

476,201	May	31, 1892	Drive chain.
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Hart, Charles E., & Thomas Tracy,

258,685	May	30, 1882.	Skate.
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Hart, George L.

110,975	Jan.	17, 1871	Animal trap.
112,807	March	21,	Mouse and animal trap.
116,052	June	20,	Trace lock.
122,318	Jan.	2, 1872	Mouse trap.

Hart George P.

474,086	May	3, 1892	Manufacture of drive chain links.
491,645	Feb.	14, 1893	Stop hinge.

Hart, Gerald W.

226,914	April	27, 1880	Buckle.
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Hart, Howard S.

473,175	April	19, 1892	Hinge.
477,655	June	28,	Hook.
520,231	May	22, 1894	Drive chain.

Hart, Isaac W., & Omer Norton.

74,352 Feb. 11, 1868 Carpet fastener.

Hart, Ozias.

Dec. 31, 1812 Rake for collecting apples.

Hart, William H.

48,555 July 4, 1865 Door bolt.
 50,120 Sep. 26, Door bolt.
 103,606 May 31, 1870 Door bolt.
 139,464 June 3, 1873 Sheet metal hinge.
 147,160 Feb. 10, 1874 Hasp fastener.
 215,739 May 27, 1879 Lifting handle.
 216,399 June 10, Hinge.
 218,436 Aug. 12, Hinge.
 327,260 Sep. 29, 1885 Series of labels for tacks, brads or nails.
 333,854 Jan. 5, 1886 Strap hinge.
 389,508 Sep. 11, 1888 Making hinge leaves.
 420,062 Jan. 28, 1890 Box handle.
 483,843 Oct. 4, 1892 Drive chain.
 489,252 Jan. 3, 1893 Manufacture of chain links.
 504,494 Sep. 5, Drive chain.
 504,877 " 12, Hinge.
 507,362 Oct. 24, Drive chain.
 527,975 " 23, 1894 Strap hinge.
 612,201 " 11, 1898 Hinge.
 618,668 Jan. 31, 1899 Hinge.
 639,565 Dec. 19, Anti-friction hinge.
 23,257 May 8, 1894 Design for a strap hinge.
 23,402 June 26, Design for a strap hinge.
 23,447 July 10, Design for a strap hinge.
 23,477 " 17, Design for a hinge leaf.
 23,506 " 24, Design for a hinge leaf.

Hart, William H., & Thomas Corscaden.

377,104 Jan. 31, 1888 Sheet metal hinge.
 18,956 March 12, 1889 Design for a hinge.

Hart, William H. & Charles E. Hart.

488,808 Dec. 27, 1892 Drive chain.

Haslam, Henry.

85,586 Jan. 5, 1869 Sash fastener.

Haslam, Henry F.

320,555 June 23, 1885 Chalk line reel

Haslam, Septimus Jr.

80,283 July 28, 1868 Machine for producing reciprocating motion in knitting machines, etc

Haslam, Walter.

77,611 May 5, 1868 Seaming machine.

Hausman, William F.

539,868 May 27, 1895 Manufacture of emery wheels.

Henn, John.

19,606 March 9, 1858 Attaching tools to handles.

Henry, William K.

558,071 April 14, 1896 Door check.
 576,965 Feb. 9, 1897 Door check..
 580,085 April 6, Door check.
 590,572 Sep, 28, Spring hinge.
 597,715 Jan. 25, 1898 Pneumatic door check.
 650,642 May 29, 1900 Liquid door check.

Henry William K., & Wilbur R. Corbin.

641,844 Jan 23, 1900 Door.
 650,036 May 22, Hinge for double acting doors.

Herrick, Frank J.

221,730 Nov. 18, 1879 Bell striking mechanism.
 255,857 April 4, 1882 Clasp for gloves or shoes.
 331,236 Nov. 24, 1885 Lemon squeezer.
 344,526 June 29, 1886 Heel and sole protector.
 351,915 Nov. 2, Heel protector.

356,039	Jan.	11, 1887	Horseman's spur.
378,682	Feb.	28, 1888	Statuette.
382,086	May	1,	Door button.
382,260	"	1,	Heel protector.
383,809	"	29,	Door check
405,886	June	25, 1889	Waist belt loop.
437,815	Oct.	7, 1890	Boot tree.
462,706	Nov.	10, 1891	Clasp.
466,136	Dec.	29,	Snap hook.
485,037	Oct.	25, 1892	Snap hook.
490,250	Jan.	17, 1893	Hammock attachment.
494,293	March	28,	Belt clasp.
495,200	April	11,	Attachment for hammock ropes
499,458	June	13,	Horse blanket buckle.
500,894	July	4,	Blanket buckle.
12,382	Aug.	2, 1881	Design for shoe and glove clasps.
19,578	Jan.	14, 1890	Design for a belt clasp.
19,579	"	14,	Design for a belt clasp.
19,580	"	14,	Design for a belt clasp.
19,863	May	27,	Design for a clasp for belts.
19,913	June	27,	Design for a combination tool.
20,110	Aug.	26,	Design for a belt clasp.
20,141	Sep.	9,	Design for a belt clasp.
21,888	Oct.	11, 1892	Design for a heel protector.
21,889	"	"	Design for a heel protector.
22,871	Nov.	7, 1893,	Design for a razor strop.

Herrick, Frank J., & Alonzo McManus.

309,621	Dec.	23, 1884	Movable hook and plate.
311,246	Jan	27, 1885	Swinging hook.

Hicks, Lucien E.

7,839	Dec.	17, 1850	Eyelet making machine.
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Hicks, Thomas R.

63,336	April	9, 1867	Vent plug.
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Hobson, Alice M.

466,137	Dec.	29, 1891	Steam cooker
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Hohenstein, Archie G.

329,558	Nov.	3, 1885	Paper box.
329,559	"	3,	Paper box.

Holland, Franklin.

403,886	May	21, 1889	Machine for driving glazier's points.
410,163	Sep.	3,	Micrometer gage.
547,435	Oct.	8, 1895	Hinge.

Holmes, George H., & Alpheus A.**Dennett.**

230,533	July	27, 1880	Mechanism for operating the thread guides of straight knitting machines.
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Holtzhouse, Jacob.

527,427	Oct.	16, 1894.	Weighing scale.
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Horne, Henry.

499,832	June	20, 1893	Padlock.
545,461	Aug.	27, 1895	Safe deposit lock.
22,456	May	23, 1893	Design for a padlock case.

Hosford, William W.

55,298	June	5, 1866	Sash fastening,
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Humason, Wm. L.

3,373	Feb.	16, 1869	Design for a latch.
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Humphrey, Ernest N.

650,251	May	22, 1900	Clasp.
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Humphrey, John D.

554,696	Feb.	18, 1896	Oil heater and illuminator.
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Hurd, Norman B.

471,553	March	29, 1892	Sash fastener.
577,430	Feb.	23, 1897	Shelf bracket.

Hurd, Norman B., & Henry C. Voight.

632,291 Sep. 5, 1899 Door check.

Ibelle, Wm. H.

296,010 April 1, 1884 Barrel lifter and carrier

Isham, Henry.

15,239 July 1, 1856 Lock.
 17,740 " 7, 1857 Lock.
 27,294 Feb. 28, 1860 Lock.
 34,060 Jan. 4, 1862 Water meter.
 34,147 " 14, " Water meter.
 51,056 Nov. 21, 1865 Water meter.
 98,971 Jan. 18, 1870 Knob for permutation locks.

Jacobi, Emil.

562,613 June 23, 1896 Vegetable slicer.

Johnson, Charles A.

578,880 March 16, 1897 Bag latch and lock.

Johnson, Jewett R., & Augustus E.

Taylor.

204,861 June 11, 1878 Burglar alarm.

Johnson, John B.

593,377 Nov. 9, 1897 Can opener.

Johnson, Joseph W.

238,398 March 1, 1881 Door bell.
 261,095 July 14, 1882 Bottle stopper.

Johnson, Joseph W., & Frederick B.

Tatcher.

305,353 Sep. 16, 1884 Bottle filling machine.

Jones, Arthur E.

499,836 June 20, 1893 Suspender buckle.

Judd, Edward A.

297,938	April 29, 1884	Trunk lock.
483,383	Sep. 27, 1892	Padlock.
484,895	Oct. 25,	Padlock.
515,689	Feb. 27, 1894	Lock.
515,690	" "	Trunk lock.
521,471	June 19,	Trunk lock.
549,134	Nov. 5, 1895	Cylinder lock.
21,821	Aug. 30, 1892	Design for a padlock case.

Judd, Edward, M.

21,968	Nov. 7, 1858	Sash fastener.
30,408	Oct. 16, 1860	Window fastener.
31,246	Jan. 29, 1861	Curtain fixture.
34,504	Feb. 25, 1862	Repeating fire arm.
36,094	Aug. 5,	Cord tightener for curtain fixtures.
37,098	Dec. 9,	Railway car brake.
37,099	" 9,	Trucks for railway car.
40,381	Oct. 20, 1863	Curtain fixture.

Judd, Frederick W.

87,344	March 2, 1869	Toy bow.
97,925	Dec. 14,	Carpet stretcher and tack holder.

Judd, Hubert L.

45,413	Dec. 13, 1864	Curtain fixture.
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Judd, Loren F.

166,615	Aug. 10, 1875	Bridle bit.
182,200	Sep. 12, 1876	Buckle.

Judd, Mortimer N.

527,498	Oct. 16, 1894	Snap hook.
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Judd, Mortimer N., & Alonzo McManus.

597,501	Jan. 18, 1898	Back band buckle.
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Judd, Morton.

5,279	Sep.	4,	1847	Sash fastener.
34,837	April	1,	1862	Screw support for hanging pictures.
39,052	June	30,	1863	Sash fastener.

Judd, Oliver S.

5,626	June	13,	1848	Window sash pulley.
35,525	"	10,	1862	Means of extinguishing gas lights
39,659	Aug.	25,	1863	Snap hook.
43,117	June	14,	1864	Material for the Manufacture of butt-hinges.
45,414	Dec.	13,		Snap hook.
50,136	Sep.	26,	1865	Sash fastening.
56,951	Aug.	7,	1866	Snap hook.
60,902	Jan.	1,	1867	Snap hook.
194,825	Sep.	4,	1877	Sash fastener.
249,947	Nov.	22,	1881	Chain.
297,605	April	29,	1884	Sash fastener.
361,634	"	19,	1887	Bracket hook.
372,805	Nov.	8,		Fire escape.

Kanrich, Isaac.

148,708	March	17,	1874	Lantern.
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Kempshall, Eleazer.

139,718	June	10,	1873	Tobacco Hanger.
165,933	July	27,	1875	Snap hook.
166,783	Aug.	17,		Harness snap.
211,913	Feb.	4,	1879	Sash fastener.
212,950	Mar.	4,		Snap hook.
257,721	May	9,	1882	Snap hook.
257,722	"	21		Sash fastener.
263,340	Aug.	29,		Snap hook.
264,539	Sep.	19,		Sash fastener.
282,903	Aug.	7,	1883	Button fastener.
283,896	"	28,		Sash fastener.
294,474	March	4,	1884	Window and door button.
294,787	"	11,		Sash fastener.
298,984	May	20,		Button setting instrument.

301,450	July	1, 1884	Button fastener.
310,524	Jan.	6, 1885	Button fastener.
310,525	"	6,	Button setting instrument.
310,830	"	13,	Button setting instrument.
314,684	March	31,	Button fastener.
328,315	Oct.	13,	Button fastener packing case.
341 148	May	4, 1886	Button attaching needle.
344,583	June	29,	Button fastener.
347,718	Aug.	17,	Paper fastener.
347,719	"	17,	Paper fastener.
354,064	Dec.	7,	Heel protector for boots or shoes.
356,202	Jan.	18, 1887	Paper fastener.
372,807	Nov	8,	Heel protector.
376,824	Jan.	24, 1888	Heel for boots or shoes.
436,760	Sep.	16, 1890	Gas burner.
466,689	Jan.	5, 1892	Invisible garment fastening.
10,379	Nov.	20, 1877	Design for a snap hook.

**Kempshall, Eleazer, & Francis H.
Richards, Springfield.**

370,891	Oct.	4, 1887	Sash fastener.
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Kempshall, Eleazer, & William Nash.

184,873	Nov.	28, 1876	Snap hook.
189,129	April	3, 1877	Snap hook.

Kenyon, William T.

246,615	Sep.	6, 1881	Bolt.
429,630	June	10, 1890	Bolt.

Kossuth, Joseph.

230,877	Aug.	10 1880	Corkscrew.
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**Kossuth, Joseph & Charles Herold,
Hartford.**

157,613	Dec.	8, 1874	Washing machine.
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Kutscher, Louis.

494,006	March	21, 1893	Shutter worker.
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Landers, Charles S.

11,281 July 8, 1879 Design for an inkstand.

Landers, Geo. M.

32,728 Dec. 18, 1900 Design for a knife handle.

Langerfield, Arthur.

14,888 March 18, 1884 Design for ornamentation of builder's hardware.

14,969 April 22, Design for ornamentation of hardware.

Lee, James T., & Lorenzo P.

632,530 Sep. 5, 1899 Rope Clamp.

Leonard, John B. H.

179,482 July 4, 1876 Table cutlery.

Leonard, John B. H., & Albert H. North.

173,807 Feb. 22, 1876 Machine for dressing cutlery handles.

Leppert, Henry.

545,080 Aug. 27, 1895 Transom rod holder.

605,105 June 7 1898 Antifriction washer for hinges.

Lewis, Burdett A.

65,096 May 28, 1867 Trace fastening.

Lockwood, William N.

28,384 May 22, 1860 Ox yoke fastening.

Lotz Jacob.

370,959 Oct. 4, 1887 Hat or coat hook.

Lowe, John.

7,265 April 9, 1850 Harness hame.

73,736 " 9, 1867 Ox bow pin.

86,847 Feb. 9, 1869 Carriage shackle.

326,229 Sep. 15, 1885 Ox bow fastening.

Lyons, Thomas.

334,123	Jan.	12, 1886	Meat cutter.
450,331	April	14, 1891	Stop for latches.
458,180	Aug.	25,	Door bolt.
1,507	Dec.	24 1861	Design for a horse spur.

Magnus, Edwin R.

411,461	Sep.	24, 1889	Dentist's bench block.
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Mahoney, Daniel M., & Thomas F.
McDonald, New Haven.

649,337	May	8, 1900	Oil can.
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Maisonville, Frances E.

589,477	Sep.	7, 1897	Meat tenderer.
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McManus, Alonzo.

58,350	Sep.	25, 1866	Snap hook.
255,879	April	4, 1882	Spur.
268,261	Nov.	28, 1882	Rosette for harness.
384,774	June	19, 1888	Spur.

McManus, Alonzo, & Frank J. Herrick.

309,621	Dec.	23, 1884	Movable hook and plate.
311,246	Jan.	27, 1885	Swinging hook.

McManus Alonzo, & Mortimer N. Judd.

597,501	Jan.	18, 1898	Back band buckle.
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Merriman, Alanson H.

78,225	May	26, 1868	Press spindle adjustment.
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Meylert, Asa P.

135,001	Jan.	21, 1873	Purifying carbonic acid gas.
136,446	March	4,	Mfgr. of white lead.
137,615	April	8,	Purifying carbonic acid gas.
151,497	June	2, 1874	Mfgr. of white lead.

Miles, Purchase.

24,479 June 21, 1859 Window curtain fixture.

Miller, Charles G.

131,367 Sep. 17, 1872 Carpenter's plow.
 142,037 Aug. 19, 1873 Match plane.
 165,355 July 6, 1875 Forging and grooving planes.
 179,718 July 11, 1876 Combined picture hanger and carpet
 stretcher.
 181,357 Aug. 22, Tonguing and grooving planes.

Miller, Charles G., & Leonard Bailey.

165,356 July 6, 1875 Dado plane.

Mitchell, Charles E.

65,107 May 28, 1867 Snap hook.

Mix, Frank W.

281,713 July 24, 1883 Lock.
 285,916 Oct. 2, Trunk Lock.
 286,327 " 9, Cabinet lock.
 295,270 March 18, 1884 Piano lock.
 295,660 " 25, Lock.
 296,345 April 8, Trunk lock.
 297,151 " 22, Lock.
 302,927 Aug. 5, Lock.
 309,238 Dec. 16, Keeper plate for locks.
 320,155 June 16, 1885 Mortise lock.
 331,426 Dec. 1, Plates and sockets for trunk locks.
 337,187 March 2, 1886 Trunk lock.
 344,002 June 22, Hasp lock.
 344,669 " 29, Padlock.
 351,458 Oct. 26, Padlock.
 352,627 Nov 16, Trunk or box fastener.
 355,333 Jan. 4, 1887 Trunk or box fastener.
 359,274 March 15, Sash fastener.
 360,611 April 5, Mortise lock.
 361,072 April 12, Padlock.

362,305	May 3, 1887	Trunk or box hinge.
362,986	" 17,	Hasp lock.
365,533	June 28,	Trunk lid lifter and cup or hasp plate for trunk locks.
365,534	" 28,	Hasp lock.
379,901	March 20, 1888	Friction hinge.
404,048	May 28, 1889	Lock.
407,366	July 23,	Hinge.
445,121	Jan. 20, 1891	Padlock.
448,981	March 25,	Key guide for locks.
16,564	" 9, 1886	Design for ornamentation of keys.
17,670	Aug. 30, 1887	Design for a hasp lock case.

Mix, Frank W., & August Arens.

333,656	Jan. 5, 1886	Cupboard latch,
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Mix, Frank W., & George B. Cowles.

331,427	Dec. 1, 1885	Trunk lock.
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Monier, Elizabeth, & Frederick Monier.

424,720	April 1, 1890	Jar cover fastening.
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Monier, Frederick.

424,719	April 1, 1890	Spur.
535,549	March 12, 1895	Jar fastener.

Monier, Frederick, & Elizabeth Monier.

424,720	April 1, 1890	Jar cover fastening.
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Moon, Frank D

462,847	Nov. 10, 1891	Standing gutter for roofs.
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Moore, E. Allen.

504,498	Sep. 5, 1893	Machine for polishing hinges.
569,464	Oct. 13, 1896	Stairs.

Mosher, George D.

179,335	June 27, 1876	Snap hook.
182,320	Sep. 19,	Spoke shave.

Mosman, David,

222,720	Dec. 16. 1879	Buckle shield.
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Mosman, David & Rodolphus L. Webb.

203,757	May 14, 1878	Inkstand.
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Mueller, Charles.

660,262	Oct. 23, 1900	Etching metal.
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Munger, Wallace T.

90,288	May 19, 1869	Reversible latch.
100,313	March 1, 1870	Reversible latch.
100,314	March 1,	Door knob rose.
109,834	Dec. 6,	Door latch.
113,909	April 18, 1871	Reversible knob latch.
113,910	April 18,	Door lock.
116,082	June 20,	Door bell.
138,680	May 6, 1873	Mortise door latch.
138,919	May 13,	Reversible latch.
139,687	June 10,	Bell pull.
146,468	Jan. 13, 1874	Extension key.
161,700	April 6, 1875	Reversible latch.
3,918	March 22, 1870	Design for a lock key.

Munger, Wallace T., & Asa T. Brooks.

211,832	Feb. 4, 1879	Lock.
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Munson, Edward H.

513,949	Jan. 30, 1894	Connector for electric wires.
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Munson, Samuel R.

32,028	Dec. 26, 1899	Design for an egg beater frame.
33,733	Dec. 18, 1900	Design for a case for price scales.

Nash, William.

52,587	Feb. 13, 1866	Knife sharpener.
61,855	Feb. 5, 1867	Saw set.
130,936	Aug. 27, 1872	Saw set.
213,059	March 11, 1879	Nutmeg grater.

Nash, William. & Eleazer Kempshall.

184,873	Nov. 28, 1876	Snap hook.
189,129	April 3, 1877	Snap hook.

Neidl, William J.

503,706	Aug. 22, 1893	Lock.
546,784	Sep. 24, 1895	Sash fastener.
591,537	Oct. 12, 1897	Sash fastener.

Neumann, Ernest F.

493,641	March 21, 1893	Stovepipe thimble.
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Nichols, Josiah H.

70,352	Oct. 29, 1867	Mfg. of knives and forks.
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Nicholls, Walter.

397,304	Feb 5, 1889	Spur.
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Noble, Howard C.

13,985	June 19, 1883	Design for a boot strap.
26,108	Sep. 19, 1896	Design for a heel protector.
28,505	April 26, 1898	Design a for buckle.

North, Albert H.

175,142	March 21, 1876	Machine for stripping cutlery steels.
177,545	May 16,	Carving fork.
178,322	June 6,	Machine for planing knife scales.

North, Albert H., & John B. H. Leonard.

173,807	Feb. 22, 1876	Machine for dressing cutlery handles.
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North, Alvin.

545 Dec. 29, 1837 Saddle bag fastening.

North, Alvin & Oliver B., & Stephen Frink.

7,398 May 28, 1850 Machinery for making four-sided buckles.

North, Henry.

79,248 June 23, 1868 Sash fastener.

North, Oliver B. & Alvin. & Stephen Frink.

7,398 May 28, 1850 Machinery for making four-sided buckles.

North, Orrin S.

3,486 March 13, 1844 Mail bag label.

North, Orrin A.

85,756 Jan. 12, 1869 Clothes hook.
 89,331 April 27, Door bell.
 130,937 Aug. 27, 1872 Fruit basket.
 133,168 Nov. 19, Metallic basket handle.

Norton, Charles L.

244,651 July 19, 1881 Safety pin.

Norton, Omer, & Isaac W. Hart.

74,352 Feb. 11, 1868 Carpet fastener.

O'Brien, John.

201,441 March 19, 1878 Plant duster.

O'Neil, John A.

435,766 Sep. 2, 1890 Brush.

Osgood, John L.

231,445 Aug 24, 1880 Cartridge loader.

Ottner, Joseph.

28,940	June 26, 1860	Lifting handle.
132,771	Nov. 5, 1872	Cupboard catch.
4,930	May 23, 1871	Design a for cupboard latch.
5,694	March 19, 1872	Design a for paper clip.
5,702	" "	Design for a drawer pull.
5,703	" "	Design for a bolt case.
5,704	" "	Design for a bracket.

Packard, Charles F.

174.287	Feb. 29, 1876	Tool holder.
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Paramore, Samuel K., & John B. Dyson.

249,324	Nov. 8, 1881	Shaft coupling.
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Parker, Emery.

89,596	May 4, 1869	Door key.
89,886	" 11,	Key.
90,121	" 18,	Key.
97,547	Dec 7,	Sheet metal key.
105,487	July 19, 1870	Machine for milling the knuckles of butt hinges.
105,488	" "	Butt centering machine.
107,530	Sep 20,	Track rail for sliding doors.
128,650	July 2, 1872	Die for making key blanks.
129,587	" 16,	Door lock.
135,147	Jan. 21, 1873	Knob latch.
139,077	May 20,	Wire mattress.
188,258	March 13, 1877	Knob latch.
192,656	July 3,	Safety gearing.
196,696	Oct. 30,	Shutter fastening.
196,697	" "	Sash lift and lock.
206,605	July " 1878	Fastening porcelain and other knobs to their shanks.
224,348	Feb. 10, 1880	Knob attachment.
226,243	April 6,	Knob attachment.
226,244	" 6,	Knob rose attachment.
231,608	Aug. 24,	Lock case.
234 507	Nov. 2,	Key.

236,838	Jan. 18, 1881	Lock case.
239,668	April 5,	Key.
249,789	Nov. 22,	Lock.
262,243	Aug. 8, 1882	Latch.
279,006	June 5, 1883	Striking plate for locks.
281,294	July 17,	Lock case.
300,393	June " 1884	Lock.
327,820	Oct. 6, 1885	Knob attachment.
3,338	Jan. 12, 1869	Design a for sash pulley face plate
3,387	Feb. 23,	Design for a lock face plate.
3,534	June 8,	Design for a hinge face plate.
3,673	Sep. 28,	Design for a latch face plate
3,722	Oct. 19,	Design for a shutter hook or bar.
3,808	Dec. 28,	Design for a key.
3,809	" "	Design for a lock striker plate.
3,833	Feb. 1, 1870	Design for a sash or shutter lift.

Parker, Emery. & Horace K. Jones,
(Hartford).

210,221	Nov. 26, 1878	Chuck for metal screw machines.
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Parker, Emery, & William D. Spencer.

137,498	April 1, 1873	Bed bottom spring.
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Parker, William E.

623,287	April 18, 1899	Cylinder lock.
653,693	July 17, 1900	Door knob rose.
10,508	March 5, 1878	Design for chessmen.

Parr, James A.

213,298	March 18, 1879	Stockinet seaming machine.
213,299	" "	Knitting machine.

Parson, Swan.

637,154	Nov. 14, 1899	Car switch.
637,155	" "	Switch operating attachment for cars.

Parsons, Henry C., & William A. Brown.

428,130* May 20, 1890 Belt fastener.

Peck, Elnathan.

1,284 July 17, 1860 Design for a gridiron.

Pelton, Francis A.

518,825 April 24, 1894 Pipe hanger.

Penfield, Charles W.

143,996 Oct. 28, 1873 Door gong.
 152,249 June 23, 1874 Nut lock.
 190,074 April 24, 1877 Sash fastener.
 201,942 " 2, 1878 Sash fastener.
 373,535 Nov. 22, 1887 Snap hook.

**Penfeld, Charles W., & Wm. J. Carnes,
Sr., (Gonzales, Texas.)**

227,675 May 18, 1880 Stake pin.

Penfield, Chester.

67,212 July 30, 1867 Door bell.
 85,759 Jan. 12, 1869 Door bell.
 85,760 " " Alarm bell.
 135,580 Feb. 4, 1873 Bed bottom.

Penfield, Martin.

227,992 May 25, 1880 Knob attachment.

Pepper, John Paige.

8,592 Dec. 16, 1851 Mineral composition resembling jasper.

Peterson, John G.

603,046 April 26, 1898 Striking mechanism for bells.

Pilgrim, James.

22,450 Dec. 28, 1858 Core for molding plastic substances.

Pilkington, George B.

431,992	July 8, 1890	Suspender buckle.
451,840	May 5, 1891	Buckle.
462,914	Nov. 10,	Suspender buckle

Pillard, Oliver E.

71,639	Dec. 3, 1867	Adjustable tumbler for permutation locks.
73,831	Jan. 28, 1868	Permutation lock.
75,967	March 24,	Permutation lock.
79,388	June 30,	Permutation lock.
82,030	Sep. 8,	Adjustable tumbler for permutation locks.
90,682	June 1, 1869	Combination lock.
90,683	" 1,	Permutation lock.
97,550	Dec. 7,	Permutation lock.
114,706	May 9, 1871	Permutation lock.
120,296	Oct. 31,	Permutation lock.
125,905	April 23, 1872	Permutation lock.
166,632	Aug. 10, 1875	Time lock.

Pillard, Oliver E., & E. M. McPherson,

(Boston, Mass.)

189,902	April 24, 1877	Combination lock.
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Porter, Eli H.

53,333	March 20, 1866	Button swivel.
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Porter, Frederick W.. & Isaac.

180,632	Aug. 1, 1876	Door spring.
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Porter, Mortimer G.

409,064	Aug. 13, 1889	Box pull.
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Prichard, Charles F.

597,189	Jan. 11, 1898	Faced brick.
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Prindle, Lucius H.

27,751	Oct. 19, 1897	Design for a snap hook.
27,752	" "	Design for a body for snap hooks.

Punzelt, Edward E.

523,648 July 24, 1894 Door check.

Randall, Silas G.

29,194 July 17, 1860 Hay press.

Renehan, James A.

347,830 Aug. 24, 1886 Street support for electric lamps.

Renehan, James J.

498,570 May 30, 1893 Suspension device for electric lamps.
 510,486 Dec. 12, Electric lamp support.
 523,007 July 17, 1894 Electric lamp support.
 559,084 April 28, 1896 Car fender.

Reynolds, Arthur J.

475,705 May 24, 1892 Drive chain link.

Reynolds, Joseph.

21,365 Aug. 31, 1858 Carpet fastener.

Rice, E. Wilbur, & Elihu Thomson.

320,017 June 16, 1885 Cut-out for electric circuits.

Richards, Francis H.

142,044 Aug. 19, 1873 Machine for forging horseshoe nails.
 144,926 Nov. 25, Door spring.
 149,366 April 7, 1874 Converting motion.
 150,356 " 28, Traction engine.
 156,236 Oct. 27, Mechanical movement.
 164,102 June 8, 1875 Machine for forging horseshoe nail bars.
 177,960 May 30, 1876 Drop hammer.

Richards, Henry.

186,954 Feb. 6, 1877 Wrench.

Richards, Henry, & Justus A. Traut.

82,640	Sep. 29, 1868	Endless belt.
175,758	April 4, 1876	Box scraper.
176,151	" 18,	Spoke shave.
176,152	" "	Bench plane.

Richards, Hubert P.

463,974	Nov. 24, 1891	Hook.
476,172	May 31, 1892	Suspender buckle
489,502	Jan. 10, 1893	Snap hook.
594,429	Nov. 30, 1897	Shuttle for sewing machines.
601,280	March 29, 1898	Presser foot for sewing machines.
601,402	" 29,	Presser foot for sewing machines.
602,522	April 19,	Tension device.
607,079	July 12,	Sewing machine.
608,795	Aug. 9,	Thread controlling means for sewing machines.
652,935	July 3, 1900	Sewing machine.
664,505	Dec. 25,	Driving mechanism.

Richmond, Henry B.

130,747	Aug. 20, 1872	Harness.
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Richmond, Robert.

175,504	March 28, 1876	Carving fork.
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Riecker, Charles E.

553,074	Jan. 14, 1896	Tobacco pipe.
588,294	Aug. 17, 1897	Rule joint.

Riecker, Charles E., & Justus A. Traut.

448,791	March 24, 1891	Bag holding apparatus.
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Roberts. Richard N.

74,596	Feb. 18, 1868	Hitching post cap.
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Rockwell, Albert F.

32,201 Feb. 6, 1900 Design for a bicycle bell clamp.

Rowley, Burdette L.

76,821 April 14, 1868 Flexible bridle bit.
 133,259 Nov. 19, 1872 Inlaying metal with rubber.
 136,767 March 11, 1873 Bridle bit.

Russell, Henry E.

1,036 Aug. 10, 1858 Design for a door lock plate.

Russell, Henry E., Jr.

218,455 Aug. 12, 1879 Reversible latch.
 223,066 Dec. 30, Spring tongs.
 231,195 Aug 17, 1880 Chain bolt.
 246,639 Sep. 6, 1881 Transom lifter.
 326,920 " 22, 1885 Knob attachment.
 340,620 April 27, 1886 Lock for sliding doors.
 373,416 Nov. 15, 1887 Signal bell.
 377,362 Jan. 31, 1888 Transom lifter.
 412,418 Oct. 8, 1889 Sheet metal latch case.
 412,419 " 8, Sheet metal latch case.
 431,078 July 1, 1890 Pin for the hinges of stove doors.
 434,470 Aug. 19, Lock bolt.
 436,381 Sep. 16, Latch.
 438,188 Oct. 14, Master key lock.
 450,339 April " 1891 Latch.
 450,340 " " Key.
 450,341 " " Lock.
 606,246 June 28, 1898 Latch.
 11,191 May 13 1879 Design for a door knob.
 11,308 July 29, Design for a padlock.
 15,754 Jan. 27, 1885 Design for a door knob.
 22,755 Aug. 29, 1893 Design for a door knob.
 22,756 " " Design for an escutcheon plate.

Russell, Henry E. Jr., & Horace K.

Jones, (Hartford).

315,170 April 7, 1885 Wire notching machine.

Sage, Joseph.

April 14, 1810 Clothes pressing machine.

Sargent, Joseph B.

21,218 Aug. 17, 1858 Andiron.
 21,981 Nov. 2, Lifting handle.
 29,720 Aug. 21, 1860 Picture nail head.
 1,403 April 30, 1861 Design for a twine box.
 1,560 " 1, 1862 Design for a coffin handle.
 1,571 " 29, Design for a coffin handle.

Sargent, Joseph B., & Purmot Bradford.

1,345 Nov. 13, 1860 Design for a drawer pull.

**Sargent, Joseph B., & Frederick W.
Brocksieper.**

20,238 May 11, 1858 Sash fastener.

Sargent, Samuel D.

192,132 June 19, 1877 Bench plane.
 216,577 " 17, 1879 Flexibled faced plane-stock.
 355,031 Dec. 28, 1886 Bench plane.

Sargent, Samuel D., & Leonard Bailey.

124,779 March 19, 1872 Carpenter's bevel.

**Sargent, Samuel D., & Edmund A.
Schade.**

302,672 July 29, 1884 Opera chair.

Schade, Edmund A.

466,142 Dec 27, 1891. Floor clamp.
 473,087 April 19, 1892. Plane iron.
 545,732 Sep. 3, 1895 Design for a frame for circular planes.

Schade, Edmund A., & Samuel D. Sargent.

302,672 July 29, 1884 Opéra chair.

Schade, Edmund A., & Justus A. Traut.

- 532,842 Jan. 22, 1895 Bench plane.
 553,322 " 21, 1896 Miter or bevel plane.

Schoonmaker, Peter.

- 76,826 April 14, 1868 Trace clip.
 80,510 July 28, Bridle bit.

Schwalm, Charles L.

- 592,099 Oct. 19, 1897 Clothes line support.

Scott, William W.

- 261,632 July 25, 1882 Permutation lock.

Seymour, Albert P.

- 155,469 Sep. 29, 1874 Mop and brush holder.

Shepard, Amos.

- 84,072 Nov. 17, 1868 Venting metallic cores.
 84,714 Dec. 8, Sheet metal bending machine.

Shepard, Amos, & Henry C. Bulkley.

- 89,023 April 20, 1869 Pump valve.

Shepard, Josiah.

- 45,088 Nov. 15, 1864 Buckle,
 47,500 April 25, 1865 Harness fastening.
 71,232 Nov. 19, 1867 Kite frame.
 119,888 Oct. 10, 1871 Umbrella.
 139,088 May 20, 1873 Manufacture of umbrella stretchers.

Skinner, Edward J.

- 29,067 July 19, 1898 Design for a chuck.

Skinner, James N.

250,400	Dec.	6,	1881	Lathe chuck.
269,889	Jan.	2,	1883	Lathe chuck.
303,331	Aug.	12,	1884	Lathe chuck.
381,857	April	24,	1888	Drill chuck.
454,074	June	16,	1891	Drill chuck.
460,601	Oct.	6,		Lathe chuck.
463,373	Nov.	17,		Lathe chuck jaw.
463,392	"	17,		Lathe chuck.
508,533	"	14,	1893	Face plate jaw.

Smith, Alfred J.

572,075	Nov.	24,	1896	Raisin seeder.
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Smith, Charles F.

387,014	July	31,	1888	Faucet.
490,404	Jan.	24,	1893	Molasses gate.
588,663	Aug.	24,	1897	Egg beater.
594,161	Nov.	23,		Right and left hand stop and waste cock.
594,162	"	"		Right and left hand stop and waste cock.
633,916	Sep.	26,	1899	Right and left hand stop and waste cock.
20,116	Aug.	26,	1890	Design for a cutlery handle tip.
22,482	May	30,	1893	Design for a knife blade.
22,483	"	"		Design for cutlery handles.
22,503	June	6,		Design for cutlery handles.
22,700	Aug.	15,		Design for a knife.
24,163	April	2,	1895	Design for a knife.
25,560	June	2,	1896	Design for a knife handle.
25,561	"	"		Design for a knife handle.
25,562	"	"		Design for a knife handle.
32,148	Jan.	30,	1900	Design for a knife handle.
32,306	March	6,		Design for a knife handle.
33,682	Dec.	11,		Design for a knife blade and bolster.

Smith. Charles F., & John Gerard.

345,044	July	6,	1886	Carving fork.
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Smith, Charles H.

194,789	Sep. 4, 1877	Latch for doors, etc.
225,728	March 23, 1880	Latch.
272,593	Feb. 20, 1883	Padlock.

Smith, Clarence E.

618,912	Feb. 7, 1899	Snap hook.
645,874	March 20, 1900	Jewelry fastening.
652,903	July 3,	Fastening device.
30,717	May 9, 1899	Design for a buckle.

Smith, James A.

618,744	Jan. 31, 1899	Lard press, etc.
27,545	Aug. 17, 1897	Design for a case for spring balances.

Smith, James D.

9,348	Oct. 19, 1852	Sash stopper and fastener.
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Sparks, William E.

185,268	Dec. 12, 1876	Cupboard catch.
188,311	March 13, 1877	Combined sash lift and fastener.
189,145	April 3,	Sash fastener.
189,397	" 10,	Door bell.
190,162	May 1,	Reversible knob latch.
190,792	" 15,	Closet latch.
198,704	Dec. 25,	Reversible latch.
201,958	April 2, 1878	Reversible latch.
209,990	Nov. 19,	Reversible latch.
223,073	Dec. 30, 1879	Bell striking mechanism.
223,074	" "	Striking mechanism for door bells.
226,682	April 20, 1880	Sliding door lock handle.
228,569	June 8,	Latch.
231,504	Aug. 24,	Latch.
242,568	June 7, 1881	Chain bolt.
250,849	Dec. 13,	Face plate for latches.
255,893	April 4, 1882	Door check.
263,070	Aug. 22,	Sash fastener.
268,564	Dec. 5,	Sliding door handle.

270,993	Jan. 23, 1883	Sash fastener.
273,403	March 6,	Door latch.
275,533	April 10,	Door latch.
279,837	June 19,	Latch.
279,838	" "	Sash fastener.
284,506	Sep. 4,	Sash fastener.
304,041	Aug. 26, 1884	Lock for sliding doors.
14,972	April 22,	Design for a sash fastener frame.
15,012	May 20,	Design for a hinge.
15,755	Jan. 27, 1885	Design for a sash fastener frame.

Sparks, William E., & Otto F.
Fogelstrand.

206,940	Aug. 13, 1878	Sash fastener.
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Spencer, William D., & Emery Parker.

137,498	April 1, 1873	Bed bottom spring.
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Spring, John M.

113,808	April 18, 1871	Bird cage hook.
126,846	May 14, 1872	Face plate and strike for locks.
172,195	Jan. 11, 1876	Folding key for locks.
197,572	Nov. 27, 1877	Bronzing articles of iron.
248,675	Oct. 25, 1881	Bracket.

Spurr, George W.

417,520	Dec. 17, 1889	Reclining chair.
477,340	June 21, 1892	Cash register and indicator.
508,353	Nov. 7, 1893	Cash register and indicator.

Squier, Horace S.

552,932	Jan. 14, 1896	Bridle bit.
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Stanley, Augustus.

77,779	May 12, 1868	Saw horse.
97,455	Nov. 30, 1869	Bit stock.

Stanley, Augustus, & Samuel N. Chapin.

68,603 Sep. 10, 1867 Adjusting spirit level.

Stanley, James N.

612,619 Oct. 18, 1898 Cutlery handle.

Stannard, Monroe.

33,126 Aug. 20, 1861 Rotary pump.

55,927 June 26, 1866 Sewing machine needle.

Steele, David.

207,781 Sep. 3, 1878 Tool handle.

Steele, Elbridge J.

58,029 Sep. 11, 1866 Window shade fastening.

115,781 June 6, 1871 Window shutter fastening.

152,774 July 7, 1874 Door button.

182,240 Sep. 12 1876 Cupboard catch.

184,184 Nov. 7, Door bolt.

213,703 March 25, 1879 Shutter hook.

3,744 Nov. 9, 1869 Design for a drawer pull.

4,822 April 18, 1871 Design for a drawer pull.

7,578 July 21, 1874 Design for a twine holder.

Steele, Ogden L., & Wilbur F. Arnold.

89,191 April 20, 1869 Door bolt, etc.

Steele, Ransom.

299,435 May 27, 1884 Combined carpenter's square and bevel.

310,964 Jan. 20, 1885 Marking gauge.

391,207 Oct 16, 1888 Shutter fastener.

Steeles, William B.

570,346 Oct. 27, 1896 Cutlery handle.

Stevens, Clayton S.

430,240 June 17, 1890 Music stand and rack.

Stevens, Willard E.

553,970 Feb. 4, 1896 Blind hinge.

Storer, George.

24,831 July 19, 1859 Meat masher.
 28,818 June " 1860 Finishing machine.
 62,085 Feb. 12, 1867 Basket machine,

Storer, George, & Jared B. Flagg,
 (New Haven).

58,627 Oct. 9, 1866 Canvas stretcher.

Storer, George, & G. W. Storer,
 (Portland, Ct).

61,029 Jan. 8, 1867 Attachment for center boards for vessels.

Storrs, Samuel P.

479,082 July 19, 1892 Brush.

Summers, Lucius P.

105,513 July 19, 1870 Device for inserting the pins in butt
 hinges.
 109,851 Dec. 6, Machine for countersinking holes in butt
 hinges.
 133,903 " 10, 1872 Hinge making machine.
 151,632 June 2, 1874 Machine for dressing the joints of hinges.
 196,722 Oct. 30, 1877 Butt grinding machine.

Swanson, Andrew, & Henning A. Friden.

590,494 Sep. 21, 1897 Plow.

Taplin, Clarence A.

500,223 June 27, 1893 Drive chain link.

Taplin, Clarence A., & Charles E. Hart.

476,201 May 31, 1892 Drive chain.

Taylor, Augustus E.

81,559	Aug. 25, 1868	Letter file.
115,385	May 30, 1871	Lantern.
141,674	Aug. 12, 1873	Bell for sleigh shafts.
162,258	April 26, 1875	Toy pistol.
223,963	Jan. 27, 1880	Coat hook.
241,090	May 3, 1881	Attachment for driving reins.
6,279	Nov. 26, 1872	Design for a harness bell stand.
10,851	Oct. 1, 1878	Design for a toy money box.

Taylor, Augustus E., & Jewett R.

Johnson.

204,861	June 11, 1878	Burglar alarm.
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Thatcher, Frederick B., & Joseph W.

Johnson.

305,353	Sep. 16, 1884	Bottle filling machine.
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Thomson, Elihu.

242,488	June 7, 1881	Commutator for dynamo electric machines.
250,175	Nov. 29,	Electro magnetic device.
250,463	Dec. 6,	Electric lamp.
253,958	Feb. 21, 1882	Electric lamp.
255,824	April 4,	System of electrical distribution.
256,605	" 18,	Electric lamp.
258,604	May 30,	Electric arc lamp.
261,067	July 11,	Electric arc lamp.
261,790	" 25,	Electric arc lamp.
265,936	Oct. 10,	Preventing flashing between electric conductors.
265,937	" "	Regulator for dynamo electric machines.
265,993	" 17,	Electric arc lamp.
269,605	Dec. 26,	Dynamo electric machine.
269,606	" "	Regulator for dynamo electric machines.

271,947	Feb. 6, 1883	Commutator for dynamo electric machines,
271,948	" "	Electric current regulator.
272,353	" 13,	Electro magnetic retarding device.
272,920	" 27,	Electric arc lamp.
273,406	March 6,	Air blast attachment for commutators of dynamo electric machines.
274,413	" 20,	Electric arc lamp.
275,289	April 3,	Safety self-closing shunt switch for electric light circuits.
275,290	" "	Safety self-closing shunt switch for electric light circuits.
281,416	July 17,	Dynamo electric machine.
283,167	Aug. 14,	Electric commutator or switch.
283,168	" "	Electric lamp.
283,437	" 21,	Electric lamp.
289,580	Dec. 4,	Safety device for electric arc lamps.
294,094	Feb. 26, 1884	Dynamo electric machine.
294,095	" "	Electric power distribution system.
295,836	March 25,	Double carbon arc lamp.
296,799	April 15,	Dynamo electric machine.
302,960	Aug. 5,	Electric lamp.
302,961	" "	Focusing electric arc lamp.
303,898	" 19,	Electric lamp mechanism.
335,158	Feb 2, 1886	Incandescent electric lamp.
335,159	" "	System of electric distribution.
335,160	" "	Incandescent electric lamp.
350,955	Oct. 19,	Cut-out apparatus for electric lamps.
399,800	March, 19, 1889	Dynamo electric machine.
447,383	" 3, 1891	Electric arc lamp.
488,585	Dec. 27, 1892	Electric arc lamp.

Thomson, Elihu, & E. Wilbur Rice.

320,017	June 16, 1885	Cut out for electric circuits.
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Thornton, William H., & Alfred Beam.

202,606	April 16, 1878	Rubber butt plate for guns.
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Thurston, Charles H.

306,294 Oct 7, 1884 Wardrobe hook.

Tracy, Thomas.

62,981 March 19, 1867 Butt machine.

Tracy, Thomas, & Charles E. Hart.

258,685 May 30, 1882, Skate. *

Traut, Frederick A.

36,973 Nov. 18, 1862 Carpenter's bench gauge.
38,252 April 21, 1863 Plumb and level combined.
85,708 Jan. 5, 1869 Parallel ruler.

Traut, Justus A.

48,327 June 20, 1865 Joint of folding rules.
63,341 March 26, 1867 Endless belt for polishing.
82,769 Oct. 6, 1868 Adjusting spirit level.
107,125 Sep. 6, 1870 Device for cutting wire or cord from
bottle stoppers.
114,626 May 9, 1871 Adjustable bevel.
125,858 April 16, 1872 Try square.
128,513 July 2, Spirit level.
131,195 Sep. 10, Clamp.
132,421 Oct. 22, Carpenter's gauge.
136,469 March 4, 1873 Carpenter's plane.
141,475 Aug. 5, Carpenter's gauge.
150,732 May 12, 1874 Carpenter's gauge.
151,254 " 26, Carpenter's square.
151,521 June 2, Plumb bob.
159,865 Feb. 16, 1875 Block plane.
168,431 Oct. 5, Bench plane.
186,281 Jan. 16, 1877 Device for adjusting plane irons.
192,139 June 19, Miter box.
194,851 Sep. 4, Carpenter's level.
197,530 Nov. 27, Door check.
206,507 July 30, 1878 Bench plane.
219,186 Sep. 2, 1879 Bench plane.
266,556 Oct. 24, 1882 Try square
284,777 Sep. 11, 1883 Beading tool.

291,815	Jan.	8,	1884	Bench plane.
293,822	Feb.	19,		Gauge for plane bits.
306,877	Oct.	21,		Bench plane.
308,332	Nov.	18,		Rabbet plane.
316,079	April	21,	1885	Plane.
319,039	June	2,		Bench plane.
335,305	Dec.	15,		Floor plane.
334,856	Feb.	9,	1886	Beading tool.
334,308	Jan.	12,		Face plate for marking gauges.
335,674	Feb.	23,		Plane.
338,570	March	23,		Bench plane.
342,235	May	18,		Plane.
352,721	Nov.	16,		Level attachment for boring tools.
365,031	June	14,	1887	Trammel point.
376,455	Jan.	17,	1888	Bench plane.
377,178	"	31,		Clapboard bracket.
378,854	Feb.	28,		Grooving and boxing tool for carriage makers.
386,509	July	24,		Bench plane.
387,570	Aug.	7,		Pocket rule.
391,283	Oct.	16,		Box handle.
395,528	Jan.	1,	1889	Box handle.
397,449	Feb.	5,		Bottle stopper.
400,272	March	26,		Bottle stopper
402,869	May	7,		Sighting attachment for levels.
405,624	June	18,		Sighting attachment for spirit levels.
408,364	Aug.	6,		Bottle stopper.
421,786	Feb.	18,	1890	Spirit level.
422,852	March	4,		Bevel.
423,969	"	25,		Spirit level.
431,086	July	1,		Bottle opener.
431,859	"	8,		Key chain.
437,874	Oct.	7,		Button.
442,153	Dec.	9,		Buckle.
442,926	"	16,		Trousers stretcher.
443,245	"	23,		Buckle.
445,099	Jan.	20,	1891	Trousers stretcher and hanger.
446,543	Feb.	17,		Suspender buckle.
446,721	"	"		Suspender buckle.
446,722	"	"		Suspender buckle.
447,924	March	10,		Suspender buckle.

452,880	May 26, 1891	Making suspender buckles.
453,452	June 2,	Spirit level.
471,259	March 22, 1892	Suspender buckle case.
474,199	May 3,	Suspender buckle.
478,772	July 12,	Trousers guard.
480,680	Aug. 9,	Suspender buckle.
480,791	" 16,	Cast-off buckle.
480,792	" "	Snap hook.
481,213	" 23,	Buckle.
481,515	" "	Marking gauge.
504,003	" 29, 1893	Marking gauge.
511,377	Dec. 26,	Spirit level.
511,820	Jan. 2, 1894	Clasp.
516,413	March 13,	Plane.
523,021	July 17,	Level.
523,022	" "	Level.
523,023	" "	Level.
528,829	Nov 6,	Plane.
533,329	Jan. 29, 1895	Rabbett plane.
534,303	Feb. 29,	Spirit level.
536,746	April 2,	Plane.
553,879	Feb. 4, 1896	Scraping tool.
555,228	" 25,	Spokeshave and rabbett plane
556,114	March 10,	Core box plane.
565,096	Aug. 4,	Apparatus for adjusting levels.
565,097	" "	Level.
565,098	" "	Level.
591,662	Oct. 12, 1897	Plane.
645,220	March 13, 1900	Bench plane.
650,879	June 5,	Measuring device.
21,400	March 15, 1892	Design for a clasp.
21,517	May 3,	Design for a buckle.
25,130	Feb. 4, 1896	Design for a level frame or block.
26,464	Dec. 29,	Design for a tool handle

26,768	March 16, 1897	Design for a tool handle.
26,769	" "	Design for a tool handle.
27,474	Aug. 3, 1897	Design for a plane body.
28,265	Feb. 8, 1898	Design for a try square and miter.

Traut, Justus A., & Christian Bodmer.

515,063	Feb. 20, 1894	Plane.
540,283	June 4, 1895	Plane.
562,678	" 23, 1896	Machines for graduating glasses or tubes.
562,679	" "	Marking level glasses.

Traut, Justus A., & G. F. Hall,
Newark. N. J.

389,647	Sep. 18, 1888	Attachment for carpenter's rules.
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Traut, Justus A., & Charles L. Mead,
New York, N.Y.

378,704	Feb. 28, 1888	Bench plane.
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Traut, Justus A., & Henry Richards.

82,640	Sep. 29, 1868	Endless belt.
175,758	April 4, 1876	Box scraper.
176 151	" 18,	Spokeshave.
176,152	" "	Bench plane.

Traut, Justus A., & Charles E. Riecker.

448,791	March 24, 1891	Bag holding apparatus.
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Traut, Justus A., & Edmund A. Shade.

532,842	Jan. 22, 1895	Bench plane.
553,322	" 21, 1896	Miter and level plane.

Treat, John J.

660,230	Oct. 23, 1900	Lock.
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Tuck, J. Warren.

155,686	Oct.	6, 1874	Machine for dressing the knuckle joints of hinges.
205,926	July	9, 1878	Pump.

Turnbull, Andrew.

48,242	June	13, 1865	Door bell.
55,558	"	12, 1866	House bell.
107,567	Sep.	20, 1870	Ratchet feed mechanism.
115,544	May	30, 1871	Clothes line housing.
128,438	June	25, 1872	Bed bottom.
137,511	April	1, 1873	Bed bottom.
166,569	Aug.	10, 1875	Letter scales.
193,576	July	24, 1877	Weighing scales.
218,341	Aug.	5, 1879	Hydraulic fire escape.
296,650	April	8, 1884	Fire escape.
322,870	July	21, 1885	Weighing scale.
378,382	Feb.	21, 1888	Weighing scale.

Turnbull, Andrew, & Francis N. Frost.

168,810	Oct.	11, 1875	Lawn mower.
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Turnbull, Andrew, & John Gerard.

177,499	May	16, 1876	Fire apparatus.
190,573	"	8, 1877	Fire escape (hydraulic).

Turnbull, Andrew, & Rodolphus L. Webb.

125,421	April	9, 1872	Bed bottom.
139,837	June	10, 1873	Fruit parer.

Turnbull, Robert E.

243,475	June	28, 1881	Toy bank.
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Viets, Imlay B.

2,600	March	19, 1867	Design for an axe handle.
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Voight, Henry G.

421,994	Feb 25, 1890	Latch hub.
434,491	Aug. 19,	Lock or latch bolt.
480,299	" 9, 1892	Cylinder lock and key.
554,804	Feb. 18, 1896	Knob attachment.
572,844	Dec. 8, .	Lock.
574,506	Jan. 5, 1897	Lock.
574,645	" "	Latch
576,242	Feb. 2,	Latch.
587,564	Aug. 3,	Master key pin lock.
591,439	Oct. 12,	Grand master key cylinder lock,
600,627	March 15, 1898	Padlock.
602,886	April 26,	Latch.
610,20,	Sep. 6,	Sash fastener.
614,312	Nov. 15,	Padlock.
618,487	Jan. 31, 1899	Padlock.
621,874	March 28,	Stop for latches.
621,875	" "	Pin lock.
623,296	April 18,	Lock or latch case.
624,411	May 2,	Cylinder lock.
624,412	" "	Sash fastener.
625,073	" 16,	Night latch.
629,630	July 25,	Cylinder lock.
632,292	Sep. 5,	Master key padlock.
632,293	" "	Door bell.
632,294	" "	Reversible latch
632,295	" "	Door knob.
634,565	Oct. 10,	Cupboard latch.
636,303	Nov. 7,	Padlock.
639,006	Dec. 12,	Knob attachment.
647,731	April 17, 1900	Lock case.
648,471	May 1,	Keeper for locks and latches.
29,701	Nov. 22, 1898	Design for a padlock case.
30,845	May 23, 1899	Design for a latch or lock case.
30,894	" 30,	Design for a lock case.
31,928	Dec. 5,	Design for a latch case.
31,929	" "	Design for a keeper for locks and latches.
32,392	March 27, 1900	Design for a lock case.
32, 38	May 8,	Design for a padlock.

Voight, Henry G., & Charles M. Burgess.

450,353 April 14, 1891 Stop for latches.

Voight, Henry G., & Norman B. Hurd.

632,291 Sep. 5, 1899 Door check.

Wales, Louis H.

31,621 Oct. 10, 1899 Design for a padlock case.
 32,316 March 6, 1900 Design for a knob face or cap.
 32,317 " " Design for a door escutcheon.
 32,619 May 1, Design for a padlock.
 32,620 " " Design for a knob face or cap.
 32,621 " " Design for a plate for attachment to doors.

Warner Henry D.

573,559 Dec. 22, 1896 Breast strap slide.

Warner, Joseph.

19,596 March 19, 1858 Carpet stretcher.
 31,198 Jan. 22, 1861 Kettle handle.

Webb, Rodolphus L.

55,563 June 12, 1866 Snap hook.
 72,946 Dec. 31, 1867 Reversible latch.
 109,979 " 6, 1870 Twine holder.
 137,159 March 25, 1873 Reversible knob latch.
 168,307 Sep. 18, 1875 Coffee mill.
 230,374 July 20, 1880 Inkstand.
 251,011 Dec. 13, 1881 Coffee mill.
 254,414 Feb. 28, 1882 Coffee mill.
 338,123 March 16, 1886 Graduating dials.

Webb, Rodolphus L., & John Gerard.

377,555 Feb. 7, 1888 Molasses gate.

Webb, Rodolphus L., & David Mosman.

203,757 May 14, 1878 Inkstand.

Webb, Rodolphus L., & Andrew Turnbull.

125,421	April	9, 1872	Bed bottom.
139,837	June	10, 1873	Fruit parer.

Weiant, Albert E.

539,462	May	21, 1895	Pipe bracket.
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Wells, Albert S.

100,826	March	15, 1870	Metal pouring ladle.
137,398	April	1, 1873	Bed bottom.

Wessel, Frederick.

363,030	May	17, 1887	Ear stud.
539,158	"	14, 1895	Scarf pin guard.
4,256	July	19, 1870	Design for a bracelet.

Wheeler, Sarah Jane.

31,199	Jan.	22, 1861	Curry comb.
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Whitbeck, Arthur J.

610,594	Sep.	13, 1898	Bicycle tire repair kit.
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White, Charles J.

380,154	March	27, 1888	Spring clasp.
497,847	May	23, 1893	Button loop.
521,560	June	19, 1894	Garment supporter.
537,255	April	9, 1895	Button loop.

White, Walter B.

178,693	June	13, 1876	Butter package.
552,342	Dec.	31, 1895	Compass saw.

Wiard, John.

63,593	April	2, 1867	Sash fastener.
71,350	Nov.	26,	Key guard for door locks.
78,849	June	9, 1868	Cattle tie.

Widmayer, Louis.

6,724	June	24, 1873	Design for a drawer pull.
7,076	Dec.	23,	Design for a lock case.
10,029	May	29, 1877	Design for a door knob.

Widmayer, Louis, & Francis T. Fracker.

9,882	April	3, 1877	Design for a hinge.
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Wighlman, John E.

224,662	Feb.	17, 1880	Snap hook.
224,857	"	24,	Snap hook.
11,649	"	10,	Design for a roller buckle.

Williams, Henry C.

395,469	Jan.	1, 1889	Bustle.
438,789	Oct.	21, 1890	Door bell.

Winter, William E.

616,045	Dec.	13, 1898	Mailing package.
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Wood, Lucius A.

373,118	Nov.	15, 1887	Organ reed.
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Wood, Spencer H.

239,690	April	5, 1881	Circuit closer.
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Woodruff, Lucius.

35,912	July	15, 1862	Lock.
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Woodruff, Mahlon J.

97,332	Nov.	30, 1869	Latch.
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Woodruff, William W.

77,154	April	21, 1868	Fermentation bung.
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OUR EARLY MANUFACTURERS.

"THE ORIGIN OF NEW BRITAIN'S MANUFACTURERS."

As taken from a clipping deposited in the Institute Library by Prof. David N. Camp, cut from the "New Britain News," dated Aug. 18, 1860 :

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The "New Britain News" was edited and published weekly for about a year by the Hon. Valentine B. Chamberlain, and printed by Mr. Lucius M. Guernsey (now of Mystic, Conn). It was discontinued when Judge Chamberlain enlisted for the war in the summer of 1861. It was followed by Mr. Guernsey's "True Citizen," the first number of which was issued Jan. 18, 1862. The "New Britain Weekly Advocate," by James N. Phelps, (according to the edition of March 13, 1850,) began Jan. 5th of that year. The "New Britain Journal and Bristol Chronicle" was published by Oliver P. Brown; edited by Foote & Brown. Office in Dickenson's block. The issue of April 5, 1851, was Vol. 2, No. 43. In a recent letter, Mr. Guernsey says that the "North and South," published by Elihu Burritt, for a time, to advocate his scheme of "compensated emancipation," printed by Mr. Guernsey, and continued by the latter under the name of the "North and South and New Britain Journal," preceded the "New Britain News." For more about New Britain newspapers, see Camp's History of New Britain, p. 253.

“THE ORIGIN OF
NEW BRITAIN MANUFACTURERS.”

BY THE

HON. FREDERICK T. STANLEY.

This village has acquired some reputation for its manufactures. Its fabrics are familiar in all markets of our own country, and exported to some extent to foreign markets. It may be well for the present generation to know who planted the germ of what is now a thriving and successful village, a locality aside from any thoroughfare of public travel whose beginnings had no advantages of capital or water-power, or any material advantages for the prosecution of business. It is evident it had in its original elements something of what is called energy and enterprise among its fathers. The time is not remote when all living witnesses will have passed away. These details have been collected from the survivors of early times, and are sufficient to determine the origin of this village, and to whose exertions is due the establishment of a manufacturing community.

The school society of New Britain was formerly a part of the town of Berlin, and the division in 1850 left the present town of New Britain the same boundaries as the original school society. Its population fifty years ago was mainly on the outskirts of the parish and but few settlements where the village now stands.

In tracing back the history of this town we find in the year 1800 there were seven or eight families occupying the lands on what is now the present village. These lands were then the farms of the Lees, Norths, Booths, Judds, Harts, Beldens and a few others. There was then what is usually

found in similar communities, a blacksmith, shoemaker, cooper, sadler, cabinet maker,* etc. James North had a blacksmith shop; James Booth a shoe shop and tannery; Aaron Roberts a joiner and cabinet maker's shop; Erastus Lewis a tin shop, etc.; a saw-mill north of the village owned by the Judds, and a grist-mill south of the village owned by the Harts. James North had, previous to 1800, made a few brass buckles, andirons, etc., and sold them to his neighbors. He wanted his sons to have mechanical trades, and sent James, the oldest, to Stockbridge, Mass., to learn a trade of Joseph Barton. Seth J. he took into his own shop as a blacksmith. Alvin was sent to Hartford to learn the cabinet maker's trade of John I. Wells. The two younger sons, Henry and Wm. B., took the trades of wagon maker and jeweler. James North, Jr., at Stockbridge, learned, in part, various trades which were common in those days. Barton made silver spoons, sleigh bells, andirons, plain jewelry, clocks, etc. Arriving at his majority in 1779, his father built him a small shop for a casting shop and near it another small building for a finishing shop. These shops were on land now the garden of Horace Booth. Here he made, in small quantities, bells, andirons, clocks, spoons, harness and shoe buckles, and the latter were transported in saddle-bags, on horseback to Albany, and sold to the Dutch. These were the first shops for any manufacturing designed for a market abroad and James North Jr., was the first manufacturer in this village and commenced in 1800. Seth J. North, becoming of age in the fall of 1800, worked a short time in his brother's shop, and soon after carried it on himself, and James North, Jr., removed to Cherry Valley, N. Y.

About 1801, Joseph Shipman having served his apprenticeship also with Barton, returned to his native town and set up another small shop near his father's residence, on the place recently owned by Eliphalet Howd, pursuing the same

business as James North, Jr. A year or two after his shop was burned down, and he removed three-quarters of a mile north of the village, built new shops, and enlarged his business. In 1803, Seth J. North received from his father what was called the "Sugden place," where Henry Stanley's house now stands, and built new shops and carried on the business of blacksmith and brass founder. These two brass foundries of Seth J. North and Joseph Shipman, were continued down to 1840 without competition, the markets of Boston and Albany, and New York and Philadelphia being divided between them. They continued the leading business until 1830. The capital on which these two concerns were started, was borrowed of the Rev. Dr. Smalley. Lathes were then propelled by foot power; as business increased, horse power was used down to 1830, when steam power was first introduced by Stanley, Clark & Waters, where the lock business first began, in the building now occupied as a store by Hall & Stanley, and steam is now in use with one exception throughout the village.

In 1807, a company composed of Seth J. North, Isaac and Thomas Lee, Wm. Smith and Joseph Shipman, was formed for making jewelry, and various articles were made, ear drops, breast pins, etc. This commenced in a small building where the barn of O. C. Stanley now stands, (back of the B. C. Porter block,) and had been the residence of "Old Aunt Viah" so called. In a year or more it was found necessary to build larger, and a new company was formed, a large shop was built a little north of the present residence of Dr. Hart, (now the Y. M. C. A. building,) and when the business was abandoned three or four years afterward, the building was bought by Isaac and Thomas Lee, and moved on the east side of the road, and occupied as a dwelling. It has been recently known as a hotel kept by J. W. Humph-

rey, and removed to Cedar street, where the present Humphrey house was built, (now the Park Hotel.) This jewelry company was the second branch of business attempted until 1812.

In December 1812, Alvin North, Seth J. North and Hezekiah C. Whipple, began what was called the "plating, business" on Alvin North's corner. Silver plated copper wire was drawn and made into hooks and rings for men's overcoats, hooks and eyes for women's wear, curb chains for bridles, etc., which business has never been abandoned, terminating at last in plated saddlery hardware by O. B. North & Co. and H. Butler and Sons, and hooks and eyes by North, Stanley & Co.

During the war (1812) a company was formed to make roller buckles, and the buildings stood on ground near the post office. Knives and forks were made by Jesse Hart, on the corner of West Main street, where is now the Baptist church. Wrought iron table butts were made by Chauncy Wright. Bureau locks, bellows pipes, sad irons, etc., were made by Samuel Booth and Norman Woodruff, and wooden candlesticks by Theron Hart. The Peace of 1815 closed up these different branches, and the brass foundries of Seth J. North and Joseph Shipman and the plating business of North & Whipple were the only manufactories in 1816 at the close of the war.

During this period of fifteen years, the agricultural interests of the society of New Britain had been improved and enlarged and the population of the society had increased. The store of Elnathan Smith was the first in the limits of the parish on what is called East street. In 1805 or 1806, Isaac and Thomas Lee built the first store within the present limits of the Borough, at the northwest corner of the green, where

is now the residence of Henry North. From 1816 to 1821 little progress was made either in business or population, except in the outskirts of the parish.

The new meeting house, recently known as the old north church, and at present as "Strickland Hall," (where the Burritt school stands), was erected in 1822 by the Congregational society, there being no other ecclesiastical society then here occupying any church edifice. A Baptist society was organized in 1805, and a Methodist in 1818, neither at this time having any place for public worship. The location of this church formed a nucleus for the growth of the village. In the following year, 1823, the Messrs. Lee built the stone store opposite the new church, and soon after the store of O. R. Burnham & Co. was built on ground where now stands the residence of Curtis Whaples, (where Hotel Bassett stands) afterwards removed and now known as the "South Store." From 1817 to 1823, Messrs. Lee manufactured a few buttons, snaps, hooks and eyes, etc., and glass beads were made into various articles, and the plating business of hooks and rings, hook and eyes, cloak clasps, etc., had been commenced and continued by L. P. Lee & Co. several years. The brass business had branched off in the hands of Chauncy Cornwell, Josiah Dewey, Norman Woodruff and others; and James North., Jr., had returned from Cherry Valley in 1818, and resumed his former business as brass founder. No great additions of new branches were made until 1830. The business already established had, however, been much extended from 1823 to 1830 and largely increased in 1836. The financial crash of 1837 paralyzed a large portion of its business, heavy losses were made, and it was not until 1843 that they might be said to have successfully resumed business. From that time to 1857 nearly all branches had been successful and large additions have been made to the capital and business of the village. The manufacture of hardware

has been its leading feature, and the principal exceptions are the shirt factories of Isaac N. Lee & Son, Julius Parker and Wm. Bingham ; the hook and eye establishment of North, Stanley & Co.; the jewelry business of Churchill, Stanley & Co., and the New Britain Jewelry Co. and the New Britain Knitting Co., the latter one of the largest and most successful corporations in the place.

The prosperity of the village is eminently due to the enterprise and public spirit of the late Major Seth J. North. His energy and ambition have been directed through life to the advancement of its best interests. The impress of his mind and hand are seen in all things that have contributed to the elevation of the social, moral, educational, and business of the community. Indefatigable in his efforts for accumulation, and always successful; his benefactions were liberally applied to all objects of public interest and private charities, and he lived long enough to realize the organization of an industrious, intelligent, and respectable village. He was emphatically the father and founder of New Britain.

JUN 28 1907

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